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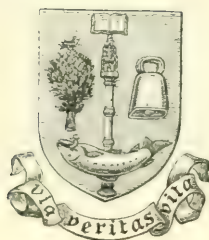
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AUGUST 1904.

1	M
2	Tu
3	W
4	Th
5	F
6	S
7	S
8	M
9	Tu
10	W
11	Th
12	F
13	S
14	S
15	M
16	Tu
17	W
18	Th
19	F
20	S
21	S
22	M
23	Tu
24	W
25	Th
26	F
27	S
28	S
29	M
30	Tu
31	W

Names of Candidates for Highland Society's Bursaries to be given in as directed on p. 393.

SEPTEMBER 1904.

1	Th	{ Names of Candidates for Bursaries in the gift of the Merchants' House, for Hutchesons' Educational Trust Bursaries, for Glasgow City Educational Endowments Bursaries, for James Laing Bursaries, for M'Crie Bursaries, for Marshall Trust Bursaries, for Pratt Bursaries, for William Whyte Bursary, and for Hannay Bursary to be given in as directed at p. 393. Names of Candidates for Ferguson Scholarships to be given in before this day.
2	F	{ Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, and Names of Competitors for Bursaries, to be given in to Assistant-Clerk (Matriculation Office).
3	S	
4	S	
5	M	
6	Tu	{ Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office).
7	W	
8	Th	
9	F	
10	S	{ Names of Candidates for Degrees in Arts and Law, and for Scholarships, etc., to be given in to Assistant-Clerk (Matriculation Office).
11	S	
12	M	
13	Tu	
14	W	Examination for Macdonald Bursary.
15	Th	
16	F	
17	S	
18	S	{ Preliminary and Bursary Examinations begin. (See pp. 195, 392.) Degree Examinations—Mathematics (Ord. and Hon.).
19	M	
20	Tu	
21	W	
22	Th	Degree Examinations—Education, Geology, Astronomy.
23	F	
24	S	
25	S	
26	M	{ Degree Examinations—History (Hon.), Mathematics (Hon.). Zoology, Chemistry, Materia Medica, Engineering Laboratory, Constitutional Law, Civil (or Roman) Law. Competition for Lorimer Bursaries in Medicine. (Continued on 27th.)
27	Tu	{ Degree Examinations—Moral Philosophy (Ord. and Hon.), History (Hon.), Botany, Physics, Anatomy, Physiology, Engineering, Drawing, Naval Architecture, Ship Design, Scots Law, Public International Law.
28	W	{ Degree Examinations—Logic (Ord. and Hon.), History (Hon.), Political Economy, Economic Science (Agric.), Engineering, Medical Jurisprudence and Public Health, Pathology, Philosophy of Law, International Private Law.
29	Th	{ Degree Examinations—History (Ord. and Hon.), English Literature (Hon.), Mental Philosophy (Hon.), Engineering, Conveyancing, Forensic Medicine. Preliminary Examinations end. Additional Examinations in German and French for Bursaries.
30	F	{ Degree Examinations—Natural Philosophy (Ord. and Hon.), English Literature (Hon.), French (Hon.), German (Hon.), Agriculture, Agricultural Entomology, Mercantile Law. Additional Examinations in Mathematics, Latin, and Greek for Bursaries.

OCTOBER 1904.

		{ Theses for M.D. given in. Names of Candidates for Examination for M.D. to be given in.
1	S	{ Degree Examinations—English Literature (Ord. and Hon.), Classics (Hon.), Natural Philosophy (Hon.), Veterinary Hygiene. Additional Examination in Dynamics for Bursaries. Examination for Arnott Prizes at 2 P.M.
2	S	
3	M	Degree Examinations—Latin (Ord. and Hon.).
4	Tu	Degree Examinations—German (Ord. and Hon.).
5	W	Degree Examinations—French (Ord. and Hon.).
		{ Degree Examinations—Greek (Ord. and Hon.).
6	Th	{ Meeting of University Court. Appointment of Preliminary Examiners and Members of Joint Board for next year. Appointment of Committees and of Representatives at Charitable and other Boards. Meeting of Classical and Modern Languages Committees of Joint Board.
		{ Meeting of Joint Board.
7	F	{ Degree Examinations—Hebrew (Arts).
8	S	Meeting of Joint Board.
9	S	
10	M	
11	Tu	
12	W	{ Matriculation begins. Names of Candidates for Degree of B.D. and for Bursaries, etc., in Theology to be given in to Assistant-Clerk (Matriculation Office).
		{ Results of Bursary Competition declared.
13	Th	{ Opening of Winter Session. Meeting of Senate—Election of Senate Members of Library and other Committees.
14	F	
15	S	
16	S	
17	M	
18	Tu	Examinations for B.D., and for Bursaries in Theology, 1st day. (See p. 270.)
19	W	Do. do., 2nd day.
20	Th	
21	F	
22	S	
23	S	
24	M	
25	Tu	
26	W	(Last Wednesday.) Meeting of General Council.
27	Th	
28	F	
29	S	
30	S	
		{ Applications for admission as Research Students to be lodged with the Clerk of Senate.
31	M	{ Last day for giving in University Prize Essays. Names of Candidates for Diploma in Education to be given in to Assistant-Clerk (Matriculation Office).

NOVEMBER 1904.

1	Tu	
2	W	
3	Th	{ Meeting of Senate. Graduation. Representatives at Charitable and other Boards elected.
4	F	Matriculation ends. Close of Enrolment in Classes.
5	S	
6	S	
7	M	
8	Tu	
9	W	
10	Th	Meeting of University Court.
11	F	Examination for Diploma in Education.
12	S	
13	S	
14	M	
15	Tu	
16	W	
17	Th	
18	F	
19	S	
20	S	
21	M	

NOVEMBER 1904.

22	Tu
23	W
24	Th
25	F
26	S
27	S
28	M
29	Tu
30	W

DECEMBER 1904.

1	Th	Meeting of Senate. Vacancies in Bursaries ascertained.
2	F	
3	S	
4	S	
5	M	
6	Tu	Meeting of the University Court.
7	W	
8	Th	
9	F	
10	S	
11	S	
12	M	
13	Tu	
14	W	
15	Th	
16	F	
17	S	
18	S	
19	M	
20	Tu	
21	W	
22	Th	
23	F	
24	S	
25	S	
26	M	Christmas Holidays commence.
27	Tu	
28	W	
29	Th	
30	F	
31	S	

JANUARY 1905.

1	S	
2	M	
3	Tu	
4	W	
5	Th	
6	F	
7	S	
8	S	
9	M	
10	Tu	First day on which the Classes meet after the Christmas Holidays.
11	W	
12	Th	{ Meeting of Senate. Intimation from the several Faculties of the Election of Deans. Appointment of Boards of Studies. Vacant Bursaries filled up. Report by Faculty of Arts on Logan Medal.
13	F	
14	S	Applications for Higher Degrees in Arts and Science (D.Litt., D.Phil., and D.Sc.) to be sent in to Clerk of Senate.
15	S	
16	M	
17	Tu	
18	W	
19	Th	Meeting of University Court.
20	F	Close of Enrolment in Classes which begin after Christmas Holidays.
21	S	
22	S	
23	M	
24	Tu	
25	W	
26	Th	
27	F	
28	S	
29	S	
30	M	Holiday (Monday after last Friday of January).
31	Tu	Holiday (for Candlemas).

FEBRUARY 1905.

1	W	Theses for M.D. to be sent in.
2	Th	Meeting of Senate. Reports of Committees on Honorary Degrees.
3	F	
4	S	
5	S	
6	M	
7	Tu	
8	W	
9	Th	{ (Second Thursday.) Meeting of University Court. Arrangements for Summer Session.
10	F	
11	S	
12	S	
13	M	
14	Tu	
15	W	
16	Th	
17	F	
18	S	
19	S	
20	M	
21	Tu	
22	W	
23	Th	
24	F	
25	S	
26	S	
27	M	Holiday (Monday after last Friday of February).
28	Tu	

MARCH 1905.

1	W	Reports on Prize Essays.
2	Th	{ Meeting of Senate. Schemes of Courses in Arts, Science, and Medicine to be sent by Professors and Lecturers to Conveners of Boards of Studies.
3	F	{ Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, to be given in to Assistant-Clerk (Matriculation Office).
4	S	{
5	S	
6	M	
7	Tu	{ Names of Candidates for Degrees in Arts and Law to be given in to Assistant-Clerk (Matriculation Office).
8	W	{ Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office).
9	Th	
10	F	
11	S	{ Meeting of University Court. Appoint Member of Committee of West of Scotland Marine Biological Station.
12	S	
13	M	
14	Tu	
15	W	
16	Th	{ Meeting of Senate. Election of Commissioner to General Assembly. Snell Examiners appointed. Appointment to International Exhibition Scholarship.
17	F	{
18	S	
19	S	
20	M	
21	Tu	
22	W	{
23	Th	
		Close of Winter Session.
		{ Names of Candidates for Degree of B.D. to be given in to Assistant-Clerk (Matriculation Office).
24	F	{ Preliminary Examinations in Arts, Science, and Medicine begin. (See p. 195.) Degree Examination—Mathematics (Ord. and Hon.).
25	S	Degree Examinations—Education, Astronomy, Geology.
26	S	{ Returns from Teachers of Elocution. Degree Examinations—History (Hon.), Mathematics (Hon.), Zoology, Chemistry, Materia Medica, Engineering Laboratory, Constitutional Law, Civil (or Roman) Law.
27	M	
28	Tu	{ Degree Examinations—Moral Philosophy (Ord. and Hon.), History (Hon.), Botany, Physics, Anatomy, Physiology, Engineering Drawing, Naval Architecture, Ship Design, Scots Law, Public International Law.
		{ Degree Examinations—Logic (Ord. and Hon.), History (Hon.), Political Economy, Economic Science (Agric.), Engineering, Medical Jurisprudence and Public Health, Pathology, Philosophy of Law, International Private Law.
29	W	{
		Preliminary Examinations end.
30	Th	{ Degree Examinations—History (Ord. and Hon.), English Literature (Hon.), Mental Philosophy (Hon.), Engineering, Conveyancing, Forensic Medicine, Divinity, Textual Criticism.
		{ Degree Examinations—Natural Philosophy (Ord. and Hon.), English Literature (Hon.), French (Hon.), German (Hon.), Agriculture, Agric. Entomology, Mercantile Law, Church History, Hermeneutics.
31	F	{

APRIL 1905.

1	S	{ Degree Examinations—English Literature (Ord. and Hon.), Classics (Hon.), Natural Philosophy (Hon.), Veterinary Hygiene.
2	S	
3	M	Degree Examinations—Latin (Ord. and Hon.).
4	Tu	Degree Examinations—German (Ord. and Hon.).
5	W	{ (First Wednesday.) Meeting of General Council. Degree Examinations—French (Ord. and Hon.).
6	Th	{ Last day for returning Books to the Library. Degree Examinations—Greek (Ord. and Hon.). Meeting of Classical and Modern Languages Committees of Joint Board.
7	F	{ Degree Examinations—Hebrew (Arts). Meeting of Joint Board.
8	S	Meeting of Joint Board.
9	S	
10	M	
11	Tu	Meeting of Senate.
12	W	
13	Th	Meeting of University Court.
14	F	{ Names of Candidates for Diploma in Education to be given in to Assistant Clerk (Matriculation Office).
15	S	
16	S	
17	M	
18	Tu	{ Library re-opened. Graduation—Distribution of University Prizes.
19	W	{ Meeting of Senate—Election of Clerk and Assistant Clerks. Summer Session begins.
20	Th	

APRIL 1905.

21	F	
22	S	
23	S	
24	M	
25	Tu	
26	W	
27	Th	
28	F	Examination for Diploma in Education.
29	S	
30	S	

MAY 1905.

1	M	
2	Tu	Close of Matriculation and Enrolment in Classes.
3	W	
4	Th	Meeting of University Court.
5	F	
6	S	
7	S	
8	M	
9	Tu	
10	W	
11	Th	
12	F	
13	S	
14	S	
15	M	
16	Tu	
17	W	
18	Th	
19	F	
20	S	
21	S	
22	M	
23	Tu	
24	W	
25	Th	{ Names of Candidates for Final Professional Examination in Medicine to be given in to Assistant-Clerk (Matriculation Office).
26	F	
27	S	
28	S	
29	M	
30	Tu	
31	W	

JUNE 1905.

1	Th	Theses for M.D. given in.
2	F	
3	S	Last day for Professors sending in names of Assistants for 1905-6 to
4	S	Secretary of University Court.
5	M	
6	Tu	
7	W	
8	Th	Meeting of University Court. Appointment of Lecturers, and of
9	F	University Assistants.
10	S	
11	S	
12	M	
13	Tu	
14	W	
15	Th	Degree Examinations—Practice of Medicine, Surgery.
16	F	Do. Midwifery; Clinical Examinations begin.
17	S	
18	S	
19	M	
20	Tu	
21	W	
22	Th	
23	F	
24	S	
25	S	
26	M	
27	Tu	
28	W	
29	Th	
30	F	

JULY 1905.

1	S	
2	S	
3	M	
4	Tu	
5	W	
6	Th	Meeting of University Court.
7	F	
8	S	
9	S	
10	M	
11	Tu	
12	W	
13	Th	
14	F	
15	S	
16	S	
17	M	Meeting of Senate. Graduation in Medicine.
18	Tu	
19	W	
20	Th	
21	F	
22	S	
23	S	
24	M	
25	Tu	
26	W	
27	Th	
28	F	
29	S	
30	S	
31	M	

UNIVERSITY OFFICERS.

	Elected.	Electors.
<i>Chancellor</i> —THE RIGHT HON. LORD KELVIN, G.C.V.O., LL.D., - - - - -	1904	General Council.
<i>Vice-Chancellor</i> —ROBERT HERBERT STORY, D.D., LL.D., - - - - -	1898	Chancellor.
<i>Rector</i> —THE RIGHT HONOURABLE GEORGE WYNDHAM, M.P., - - - - -	1902	{ Matriculated Students.
<i>Principal</i> —ROBERT HERBERT STORY, D.D., LL.D.,	1898	Crown.
<i>Dean of Faculties</i> —SIR JAMES KING, BART., LL.D., - - - - -	1904	Senate.
<i>Parliamentary Representative</i> —THE RIGHT HON. JAMES A. CAMPBELL, LL.D., - - -	1880	General Council.

University Court.

THE RECTOR, <i>ex officio</i> .	THE PRINCIPAL, <i>ex officio</i> .
	Elected. Electors.
H. E. GORDON, B.A. - - -	1904 Chancellor.
ALLAN F. BAIRD, - - -	1902 Rector.
ROBERT M. MITCHELL, - - -	1899 { Lord Provost, Magistrates, and Town Council of Glasgow.
SIR JOHN N. CUTHBERTSON, LL.D.,	1889
D. C. M'VAIL, M.B., - - -	1891
W. ROBERTSON COPLAND, - - -	1900
DAVID MURRAY, LL.D., - - -	1903
PROFESSOR STEWART, D.D., - - -	1889
PROFESSOR MOIR, LL.D., - - -	1900
PROFESSOR RALEIGH, M.A., - - -	1902
PROFESSOR MUIR, M.A., M.D., -	1903
	} General Council.
	} Senate.

Senatus Academicus.¹

PRESIDENT, - - -	THE PRINCIPAL, - - -	1898
PROFESSORS.		
	CHAIRS.	Appointed
Henry Martyn Beckwith Reid, D.D.,	<i>Divinity</i> , - - -	1903
George G. Ramsay, LL.D., - - -	<i>Humanity</i> , - - -	1863
William Stewart, D.D., - - -	<i>Biblical Criticism</i> , -	1873
T. McCall Anderson, M.D., - - -	<i>Practice of Medicine</i> , -	1900 ²

¹ See note at foot of next page.² Professor Anderson occupied the Chair of Clinical Medicine from 1874 till he was appointed to the Chair of Practice of Medicine in 1900.

PROFESSORS— <i>Continued.</i>		CHAIRS.	Appointed
John Ferguson, M.A., LL.D., F.S.A.,	-	<i>Chemistry,</i> -	1874
John Gray M ^c Kendrick, M.D., LL.D.,	} F.R.S., - - - - -	<i>Physiology,</i> -	1876
James Robertson, D.D.,		- { <i>Hebrew and Semitic Languages,</i> - }	1877
John Cleland, M.D., LL.D., D.Sc., F.R.S.,	-	<i>Anatomy,</i> -	1877
William Jack, LL.D.,	-	<i>Mathematics,</i> -	1879
Frederick O. Bower, Sc.D., F.R.S.,	-	<i>Botany,</i> -	1885
Alexander Moody Stuart, LL.D.,	-	<i>Law,</i> -	1887
Archibald Barr, D.Sc.,	-	- { <i>Civil Engineering and Mechanics,</i> }	1889
James Moir, LL.D.,	-	<i>Conveyancing,</i> -	1889
John Harvard Biles, LL.D.,	-	- { <i>Naval Architecture, including Marine Engineering,</i> }	1891
Sir William Macewen, M.D., Hon.	} F.R.C.S., LL.D., F.R.S., -	<i>Surgery,</i> -	1892
Ludwig Becker, Ph.D.,		<i>Astronomy,</i> -	1893
Murdoch Cameron, M.D.,	-	<i>Midwifery,</i> -	1894
Henry Jones, LL.D.,	-	<i>Moral Philosophy,</i> -	1894
William Smart, D.Phil., LL.D.,	-	<i>Political Economy,</i> -	1896
Ralph Stockman, M.D.,	-	<i>Materia Medica,</i> -	1897
John Glaister, M.D.,	-	<i>Forensic Medicine,</i> -	1898
James Cooper, D.D.,	-	<i>Church History,</i> -	1898
Robert Muir, M.A., M.D.,	-	<i>Pathology,</i> -	1899
John S. Phillimore, M.A.,	-	<i>Greek,</i> -	1899
Andrew Gray, LL.D., F.R.S.,	-	<i>Natural Philosophy,</i>	1899
Dudley J. Medley, M.A.,	-	<i>History,</i> -	1899
Sir Hector C. Cameron, M.D.,	-	<i>Clinical Surgery,</i> -	1900
Walter A. Raleigh, M.A.,	-	- { <i>English Language and Literature,</i> }	1900
Samson Gemmell, M.D.,	-	<i>Clinical Medicine,</i> -	1900
Robert Latta, M.A., D.Phil.,	-	<i>Logic and Rhetoric,</i> -	1902
John Graham Kerr, M.A.,	-	<i>Zoology,</i> -	1902
John Walter Gregory, D.Sc., F.R.S.,	-	<i>Geology,</i> -	1904

Note.—"The precedence of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—*Statute of Royal Visitation, 1727.*

Deans of the several Faculties.

<i>Arts</i> , - - - - -	Professor Jones.
<i>Science</i> , - - - - -	Professor Gray.
<i>Medicine</i> , - - - - -	Professor Murdoch Cameron.
<i>Law</i> , - - - - -	Professor Glaister.
<i>Theology</i> , - - - - -	Professor Stewart.

Lecturers.

David Yellowlees, M.D., LL.D., -	-	<i>Insanity.</i>
Thomas Barr, M.D., - - -	-	<i>Diseases of the Ear.</i>
J. Walker Downie, M.B., - -	-	{ <i>Diseases of the Throat and Nose.</i>
James F. Gemmill, M.A., M.D., -	-	
— — — — —	-	<i>Embryology.</i>
— — — — —	-	<i>Public International Law.</i>
— — — — —	-	<i>International Private Law.</i>
— — — — —	-	<i>General Jurisprudence.</i>
Wm. S. M'Kechnie, LL.B., D.Phil., -	-	{ <i>Constitutional Law and History.</i>
James M. Irvine, LL.B., - - -	-	
William Shaw, - - - - -	-	<i>Civil Law.</i>
Frederick Soddy, M.A., - - -	-	<i>Mercantile Law.</i>
W. C. Anderson, D.Sc., - - -	-	<i>Physical Chemistry.</i>
W. C. Anderson, D.Sc., - - -	-	<i>Metallurgical Chemistry.</i>
Matthew A. Parker, B.Sc., - - -	-	<i>Organic Chemistry.</i>
J. B. Henderson, D.Sc., - - -	-	<i>Electrical Engineering.</i>
Henry Bamford, M.Sc., - - -	-	{ <i>Engineering Drawing and Design.</i>
George Macdonald, M.A., - - -	-	
Robert G. Nisbet, M.A., - - -	-	{ <i>Classical Archæology.</i>
Daniel Rankin, B.A., - - -	-	
William Rennie, M.A., - - -	-	<i>Humanity.</i>
Ritchie Girvan, M.A., - - -	-	<i>Greek.</i>
John L. Morison, M.A., - - -	-	<i>Anglo-Saxon.</i>
John L. Morison, M.A., - - -	-	<i>British History.</i>
Charles Martin, M.A. (Paris), O.A., -	-	{ <i>French Language and Literature.</i>
George P. Thistlethwaite, B.A., Ph.D.,	-	
George P. Thistlethwaite, B.A., Ph.D.,	-	{ <i>German Language and Literature.</i>
Thomas H. Weir, B.D., - - -	-	{ <i>Hebrew and Arabic or Syriac.</i>
Robert A. Duff, M.A., D.Phil., -	-	
Robert A. Duff, M.A., D.Phil., -	-	<i>Political Philosophy.</i>
John Clark, M.A., - - - - -	-	<i>Education.</i>

David K. Picken, M.A.,	-	-	-	-	} <i>Mathematics.</i>
Robert J. T. Bell, M.A., B.Sc.,	-	-	-	-	
George W. Walker, M.A.,	-	-	-	-	<i>Physics.</i>
James Muir, D.Sc.,	-	-	-	-	<i>Electricity, Pure and Applied.</i>
Charles Latham,	-	-	-	-	<i>Mining.</i>
Kuno Meyer, Ph.D.,	-	-	-	-	<i>Celtic.</i>
Émile Boutroux,	-	-	-	-	{ <i>Natural Theology</i> (Gifford Foundation), 1903-5.
John Morrison, D.D.,	-	-	-	-	{ <i>Apologetics</i> (Alexander Robertson Foundation), 1904-5.
Fernando Agnoletti, D.Litt.	-	-	-	-	{ <i>Italian Language and Literature.</i>
* Herbert W. Bolam, B.Sc., Ph.D.,	-	-	-	-	<i>Chemistry.</i>
* Thomas H. Bryce, M.A., M.D.,	-	-	-	-	<i>Anatomy.</i>
* William MacLennan, M.B., C.M.,	-	-	-	-	<i>Materia Medica.</i>
* Charles Workman, M.D.,	-	-	-	-	<i>Pathology.</i>
* J. H. Pringle, F.R.C.S.,	-	-	-	-	<i>Surgery.</i>
* Walter K. Hunter, D.Sc., M.D.,	-	-	-	-	<i>Practice of Medicine.</i>
* A. M. Ramsay, M.D.,	-	-	-	-	<i>Diseases of the Eye.</i>
* D. Nichol Smith, M.A.,	-	-	-	-	{ <i>English Language and Literature.</i>
* Norman Smith, M.A., D.Phil.,	-	-	-	-	<i>Logic.</i>
* Robert A. Duff, M.A., D.Phil.,	-	-	-	-	<i>Moral Philosophy.</i>
* James Blyth, M.A., LL.D., F.R.S.E.,	-	-	-	-	<i>Natural Philosophy.</i>
* William H. Lang, D.Sc., M.B., C.M.,	-	-	-	-	<i>Botany.</i>
* David M'Crorie, L.R.C.P.S.,	-	-	-	-	<i>Bacteriology.</i>

Boards of Studies.—1903-4.

In Arts. *Language and Literature.*—The Principal, the Dean of the Faculty of Arts, Professors Ramsay, Robertson, Phillimore, and Raleigh, Messrs. Macdonald, Rennie, Nisbet, Rankin, Weir, Nichol Smith, Martin, Thistlethwaite, and Agnoletti.—Professor Raleigh, *Convener*.

Mental Philosophy.—The Principal, the Dean of the Faculty of Arts, Professors Smart, Phillimore, and Latta, Drs. R. A. Duff, Norman Smith, and Mr. John Clark.—Professor Jones, *Convener*.

Science.—The Principal, the Dean of the Faculty of Arts, Professors Ferguson, Jack, Bower, Becker, Gray, and Kerr, Drs. Blyth, Bolam, Anderson, and Lang, and Messrs. Parker and Mort.—Professor Jack, *Convener*.

* Lecturers at Queen Margaret College.

History and Law.—The Principal, the Dean of the Faculty of Arts, Professors Medley and Raleigh, Dr. M'Kechnie, and Messrs. Irvine and Morison—Professor Medley, *Convener*.

English (Language, Literature, and British History).—The Principal, the Dean of the Faculty of Arts, Professors Ramsay, Phillimore, Medley, and Raleigh, Dr. M'Kechnie, and Messrs. Morison and Nichol Smith.—Professor Raleigh, *Convener*.

Economic Science.—The Principal, the Dean of the Faculty of Arts, Professors Smart and Medley, Dr. M'Kechnie, and Mr. Irvine.—Professor Smart, *Convener*.

In Science.—Professors Ferguson, M'Kendrick, Cleland, Jack, Bower, Barr, Biles, Becker, Glaister, Gray, and Kerr, Dr. W. C. Anderson, Dr. J. B. Henderson, Dr. Muir, Dr. Lang, Dr. Blyth, Dr. Bolam, and Messrs. G. W. Walker, M. A. Parker, Bamford, Latham, and Mort.—Professor Gray, *Convener*.

In Medicine.—Professors Anderson, Ferguson, M'Kendrick, Cleland, Bower, Sir William Macewen, Murdoch Cameron, Stockman, Glaister, Muir, Gray, Sir Hector C. Cameron, Gemmell, and Kerr, Mr. G. W. Walker, Drs. Yellowlees, Thomas Barr, Downie, Workman, A. M. Ramsay, Bryce, Pringle, Maclellan, J. F. Gemmill, Blyth, Lang, and Hunter—the Dean of the Faculty of Medicine, *Convener*.

University Assistants or Demonstrators.

<i>Humanity,</i>	-	-	-	-	{ Robert G. Nisbet, M.A. Daniel Rankin, B.A.
<i>Greek,</i>	-	-	-	-	- William Rennie, M.A.
<i>English Language and Literature,</i>	-	-	-	-	{ D. Nichol Smith, M.A. Ritchie Girvan, M.A.
<i>French,</i>	-	-	-	-	- Léon Pitoy, L. ès L.Phil.
<i>Hebrew and Semitic Languages,</i>					- Thomas H. Weir, B.D.
<i>Logic,</i>	-	-	-	-	- Norman Smith, M.A., D.Phil.
<i>Moral Philosophy,</i>	-				- Robert A. Duff, M.A., D.Phil.
<i>Political Economy,</i>	-				{ Thomas Jones, M.A. Stanley H. Turner, M.A.
<i>Mathematics,</i>	-	-	-	-	{ David K. Picken, M.A. Robert J. T. Bell, M.A., B.Sc.
<i>Natural Philosophy,</i>	-	-	-	-	{ G. W. Walker, M.A. James Muir, D.Sc. James G. Gray, B.Sc.
Arnott and Thomson Demonstrator in Experimental Physics,	-	-	-	-	{ James Muir, D.Sc.

<i>History,</i>	-	-	-	-	John L. Morison, M.A.
<i>Civil Engineering and Me-</i>	{	-	-	-	Harry Bamford, M.Sc.
<i>chanics,</i>					James B. Henderson, D.Sc.
					William Alexander.
<i>Naval Architecture,</i>	-	-	-	-	John G. Johnstone, B.Sc.
<i>Botany,</i>	-	-	-	-	{ William H. Lang, D.Sc., M.B., C.M.
					{ D. T. Gwynne Vaughan, M.A.
<i>Zoology,</i>	-	-	-	-	{ E. J. Bles, B.A., B.Sc.
					{ R. A. Staig.
<i>Baxter Demonstrator in Geology,</i>					Frederick Mort, M.A., B.Sc.
<i>Chemistry,</i>	-	-	-	-	{ William C. Anderson, D.Sc., M.A.
					{ Matthew A. Parker, B.Sc.
					{ James Roberts, F.C.S.
<i>Anatomy,</i>	-	-	-	-	{ James F. Gemmill, M.A., M.D.
					{ William K. Hutton, M.A., M.B., C.M.
					{ Archibald N. M'Lellan, M.B., C.M.
					{ W. D. H. Stevenson, M.A., M.B., Ch.B.
<i>Physiology,</i>	-	-	-	-	{ Walter Colquhoun, M.A., M.B., C.M.
					{ (Muirhead Demonstrator).
					{ George H. Clark, M.B., Ch.B., D.Ph.
<i>Materia Medica,</i>	-	-	-	-	Francis J. Charteris, M.B., Ch.B.
<i>Pathology,</i>	-	-	-	-	{ Alexander R. Ferguson, M.D.
					{ John H. Teacher, M.A., M.D.
<i>Forensic Medicine,</i>	-	-	-	-	George A. Brown, M.B., C.M., D.P.H.
<i>Surgery,</i>	-	-	-	-	J. A. C. Macewen, B.Sc., M.B., C.M.
<i>Clinical Surgery (Sir William</i>	{	-	-	-	J. A. C. Macewen, B.Sc., M.B., C.M.
<i>Macewen),</i>					Peter Paterson, M.B., C.M.
<i>Clinical Surgery (Sir H. C.</i>	{	-	-	-	Alfred A. Young, M.A., M.B., C.M.
<i>Cameron),</i>					
<i>Practice of Medicine,</i>	-	-	-	-	{ William R. Jack, B.Sc., M.D.
					{ John S. M'Kendrick, M.D.
<i>Clinical Medicine (Dr. Ander-</i>	{	-	-	-	William R. Jack, B.Sc., M.D.
<i>son),</i>					James Hinshelwood, M.A., M.D.
<i>Clinical Medicine (Dr. Gemmell),</i>					James C. M'Clure, M.B., C.M.
<i>Midwifery,</i>	-	-	-	-	John M. M. Kerr, M.B., C.M.
<i>Conveyancing,</i>	-	-	-	-	William Guy.

Examiners for Degrees.

In Divinity.—The Professors in the Faculty of Theology, assisted by the Rev. John Maclean, D.D., and the Rev. Henry Bremner, D.D.

In Law.—The Professors and Lecturers in the Faculty of Law, assisted by

Hugh P. Macmillan, LL.B.,	-	-	-	-	1902
F. G. Mackillop, LL.B.,	-	-	-	-	1902
A. A. Mitchell, LL.B.,	-	-	-	-	1902
John A. Todd, B.L.,	-	-	-	-	1904

In Medicine.—The Professors and Lecturers in the Faculty of Medicine, as specified in Section xxiv. of Ordinance No. 14, and the following Additional Examiners:—

De Burgh Birch, M.D.	1901	D. R. Boyd, D.Sc.	1902
James Ritchie, M.D.	1901	Sidney F. Harmer, D.Sc.	1903
William Hunter, M.D.	1901	J. B. Farmer, D.Sc.	1904
Ebenezer Duncan, M.D.	1902	Alexander Macphail, M.B.	1904
Magnus Maclean, D.Sc.	1902	John C. M'Vail, M.D.	1904
Sydney Jones, M.B.	1902	William Duncan, M.D.	1904
R. B. Ness, M.B.	1902	David N. Knox, M.B.	1904

In Arts.—The Professors and Lecturers in the Faculty of Arts, as specified in Section xiv. of Ordinance No. 13, assisted by the following Additional Examiners:—

George A. Gibson, M.A.,	-	-	-	{ Mathematics & } { Nat. Philosophy, }	-	1902
D. R. Boyd, D.Sc.,	-	-	-	Chemistry,	-	1902
F. G. M'Killop, LL.B.,	-	-	-	Roman Law,	-	1902
A. A. Mitchell, LL.B.,	-	-	-	Philosophy of Law,	-	1902
Sidney F. Harmer, D.Sc.,	-	-	-	Zoology,	-	1903
Thomas W. Allen, M.A.,	-	-	-	Classics,	-	1904
G. D. Hicks, M.A., Ph.D.,	-	-	-	{ Logic and Moral } { Philosophy, - }	-	1904
W. L. Jones, M.A.,	-	-	-	English,	-	1904
John A. Todd, B.L.,	-	-	-	Political Economy,	-	1904
Arthur L. Smith, M.A.,	-	-	-	History,	-	1904
Duncan M'Gillivray, M.A.,	-	-	-	Education,	-	1904
F. J. Amours, B.A.,	-	-	-	French,	-	1904
Karl Breul, M.A., Litt.D., Ph.D.,	-	-	-	German,	-	1904
John Maclean, D.D.,	-	-	-	Hebrew,	-	1904
William Rollo, M.A.,	-	-	-	Arabic,	-	1904
J. B. Farmer, D.Sc.,	-	-	-	Botany,	-	1904

In Science.—Professor Ferguson, LL.D., Professor M'Kendrick, M.D., Professor Cleland, M.D., Professor Jack, LL.D., Professor Bower, Sc.D., Professor Barr, D.Sc., Professor Biles, LL.D., Professor Becker, Ph.D., Professor Gray, LL.D., assisted by additional examiners.

Preliminary Examiners in Arts, Science, and Medicine.—† Professor Ramsay, LL.D., † Professor Jack, LL.D., Professor Phillimore, M.A., Professor Medley, M.A., Professor Raleigh, M.A., Arthur D. Millar, M.A., Robert J. T. Bell, M.A., B.Sc., William Rennie, B.A., Daniel Rankin, B.A., Charles Martin, M.A., † F. J. Amours, B.A., George P. Thistlethwaite, Ph.D., Karl Breul, Litt.D., John Miller, M.A., John Maclean, D.D., † A. M. Williams, M.A., Archibald Revie, Wm. Rollo, M.A.

Examiners for Diploma in Education.

John Clark, M.A., and Andrew E. Scougal, M.A., H.M.I.S.

Other Officials.

<i>Secretary to the University Court,</i>	-	-	-	-	{	Alan E. Clapperton, B.L., 91 West Regent Street.
<i>Clerk of Senate,</i>	-	-	-	-	{	Professor Stewart, D.D., 18 Annfield Terrace, Partickhill.
					{	W. Iunes Addison, Matriculation Office.
<i>Assistants to the Clerk of Senate,</i>	-	-	-	-	{	James Coutts, M.A., Registration Office.
					{	Albert Morrison.
					{	Miss Galloway, Secretary at Queen Margaret College.
<i>Registrar of the General Council,</i>	-	-	-	-	{	James Coutts, M.A.
<i>Clerk of the General Council,</i>	-	-	-	-	{	Archibald Craig, LL.B., 149 West George Street.
<i>Librarian,</i>	-	-	-	-	{	James Lymburn.
<i>Sub-Librarian,</i>	-	-	-	-	{	James L. Galbraith.
					{	William Weatherston,
<i>Assistant Librarians,</i>	-	-	-	-	{	Mungo Ferguson, M.A.,
					{	Robert M. Burdon.
<i>Curator of Hunterian Library and Coins,</i>	-	-	-	-	{	George Macdonald, M.A.
<i>Under-Keeper of Hunterian Museum,</i>	-	-	-	-	{	John Mackay.
<i>Factors,</i>	-	-	-	-	{	Hill & Hoggan, 194 Ingram Street.
<i>Law-Agents,</i>	-	-	-	-	{	Mitchells, Johnston & Co., 160 West George Street.

† Members of the Joint Board.

<i>Auditors,</i>	-	-	-	{	Brown, Fleming & Murray, 163 West George Street.
<i>Publishers and Booksellers to the University,</i>	-	-	-	{	James MacLehose & Sons, 61 St. Vincent Street.
<i>Printers to the University,</i>	-	-	-	{	Robert MacLehose & Co. Ltd., Anniesland.
<i>Organist,</i>	-	-	-	-	Harold Ryder.
<i>Robe Makers to the Univer- sity,</i>	-	-	-	{	James Thomson & Son, 191 West George Street.
<i>Master of Works,</i>	-	-	-	-	John Stitt.
<i>Bedellus,</i>	-	-	-	-	William Finlayson.

Representatives of the University Court on Charitable and other Boards.

General Medical Council—Professor Anderson, M.D.
Western Infirmary—Sir Matthew Arthur, Bart., and Mr. David Johnston.
Victoria Infirmary—Dr. M'Vail and John Hutchison, LL.D.
West of Scotland Agricultural College—Dr. M'Vail.
Glasgow Samaritan Hospital for Women—Dr. M'Vail.
Highlands and Islands Educational Trust—H. P. Macmillan, LL.B., Advocate.
Stirling Educational Trust—Mr. Charles King.
West of Scotland Biological Association—Thomas Reid, M.D., LL.D.

Representatives of the Senate on Educational and other Boards.

Glasgow and West of Scotland Technical College—Professors Bower and Gray.
West of Scotland Agricultural College—Professor Stewart.
Glasgow City Educational Endowments Board—Professor Stewart.
Glasgow General Educational Endowments Board—Professors Stewart and Medley.
Glasgow School of Art—Professor Raleigh.
Hutchesons' Educational Trust—Professor Ramsay.
John Clark (Mile-End) Bursary Trust—Professor Stewart.
Scott Scholarship and Bursaries Trust—Professors Ramsay and Raleigh.
Western Infirmary—Professors Jones and M'Kendrick.
Royal Infirmary—Professor Glaister.
Asylum for the Blind—Professor Ramsay.
Glasgow Convalescent Home—Professor Murdoch Cameron.
Baillie's Institution—Professor Ferguson.
Haldane Trust—Professor Cleland.

Joint Committees of Senate and Court.

LIBRARY COMMITTEE.

Appointed by the Senate—Professors Medley, Raleigh, Glaister, Cooper, Latta, and Kerr.

Appointed by the University Court—Dr. David Murray, Mr. W. R. Copland, and Dr. John Hutchison.

MUSEUMS COMMITTEE.

Appointed by the Senate—The Principal and Professors Cleland, Bower, and Kerr.

Appointed by the University Court—Dr. M'Vail and Mr. R. M. Mitchell.

OBSERVATORY AND LABORATORIES COMMITTEE.

Appointed by the Senate—Professors Ferguson, M'Kendrick, Becker, and Gray.

Appointed by the University Court—Sir James King, Bart., and Mr. W. R. Copland.

The Carnegie Trust for the Universities of Scotland.

Trustee representing Glasgow University—Professor Stewart.

Committee on Civil Service and other External Examinations.

Professors Jack, Bower, Jones, Smart, Phillimore, Gray, Medley, and Latta, and Mr. J. M. Irvine—Professor Jones, *Convener*, and Professor Medley, *Secretary*.

Local Committee for the Training of Teachers.

Chairman—Professor Latta. *Secretary*—Mr. John Clark, M.A.
(See Appendix IV.)

Appointments Committee.

The Principal, Professors Ramsay, Stewart, Glaister, Muir, Gray, Medley, Raleigh, Latta, and Kerr, and M. Martin—Professor Latta, *Convener*, and Mr. Addison, *Secretary*.

Students' Representative Council.

President—Geo. J. Spreull, LL.B.

Vice-Presidents—Walter T. P. Speus, M.A., B.L., and John Bain, M.A.

Secretary—R. M. Wilson, 7 Kelvin Drive, Kelvinside, N.

Conveners—Frank W. Saunders, M.A. (Divinity); Elias H. Jones (Arts); R. T. Leiper (Medicine); Robert G. A. Holmes (Science); W. E. Cameron, M.A. (Law).

Treasurer—R. H. Napier.

Conveners of Committees—*Amusements*, Robert G. A. Holmes;

Lodgings, A. Carter; *Book Exchange*, J. C. Middleton, M.A.

Editor—Donald Carswell.

Finance Manager—W. C. Grieve, M.A.

I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V., by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a "*Studium Generale . . . tum in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate.*" He then declares that this University shall have the same power of creating Masters and Doctors as any other "*studium generale*" in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. In the same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they

might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of *Pædagogium*, or the College of Arts. It is said to have been situated in the Rottenrow ; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for upwards of four hundred years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI. prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name of *Nova Erectio*.

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.¹

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal,

¹This system was altered in 1642, in accordance with the practice of the other Universities ; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, *Bajan* ; the second, *Semi* ; the third, *Baccalour* ; the fourth, *Magistrand*.

a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.¹ In the next thirty years seven Professorships were either originally founded or revived, viz. :—those of Mathematics (1691), Humanity (1706), Oriental Languages (1709), Civil Law (1712), Medicine (1712), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The following eighteen Professorships were founded during the nineteenth century, viz. :—Natural History, (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), Materia Medica (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874), Naval Architecture (1883), History (1893), Pathology (1893), Political Economy (1896). In 1903 the Chair of Geology was founded, and the Chair of Natural History became the Chair of Zoology.

UNIVERSITY BUILDINGS.

The changes in the City of Glasgow having so entirely altered the character of the district in which the University Buildings were planted in the fifteenth century as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands, was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme, till the year 1863, when a proposal

¹ See Dr. Thomas Reid's Account of the University of Glasgow.

for the purchase of the College lands and buildings was made by the City of Glasgow Union Railway Company, and a sale was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate to provide for the future extension of the University.

In these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum was paid out of the National Treasury, and there has been received from the public subscription for the University Buildings and the Western Infirmary and from legacies the large amount of £261,429, including £45,000 from the late Marquis of Bute for the erection of the Bute Hall, £5,000 from the late Dr. J. M'Intyre for the University Union Buildings, £5,000 from the Bellahouston Trustees for Medical Buildings in the Women's department, £4,274 from the late Sir William Pearce, Bart., for the removal of the old College front and the re-erection of the materials at

the north-east gateway, £5,000 bequeathed by Mr. Andrew Cunninghame, and £1,000 (less legacy duty) bequeathed by Mr. James Marshall for the completion of the tower, and special subscriptions amounting to £2,600 for building and furnishing the Gymnasium. A sum of £30,000 was allocated to the Western Infirmary. New buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill; and in these buildings the classes of the University met for the first time in session 1870-71. In 1893 the buildings and grounds were extended by the gift of North Park House and Grounds for the use of the women students of the University. Extensive additions to the buildings at Gilmorehill have recently been made, including Engineering Lecture-rooms and Laboratory, Botany Class-rooms, Museum and Herbarium, and an extension of the Anatomical Department. The cost of these additions has been defrayed from the Randolph Bequest and from funds provided by the Bellahouston Trustees, the Trustees of the late James B. Thomson, and other benefactors. Two other groups of buildings are now (1904) in progress, funds being provided by the Carnegie Trust and by the Principal's University Equipment Scheme. The one group is for the accommodation of Natural Philosophy, and the other for Physiology, Materia Medica, and Forensic Medicine. A temporary building has also been erected for increasing the accommodation of the Chemical Department.

GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858 the whole business of the University was transacted in three distinct courts—namely, the Senate, the Faculty, and the Comitia.

The *Senate* consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the University.

The *Faculty*, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight pro-

fessorships vested in the College. They also presented a Minister to the parish of Govan, and had the gift of various bursaries.

The Constituent Members of the *Comitia* were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice-Rector presided in this Court, and also in the Senate. Meetings of the *Comitia* were held for the election and admission of the Rector, for hearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, consisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 83, important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished; two new bodies, called the University Court and University Council, were instituted; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, for the administration of the affairs of the University.

Further changes were made by the Universities (Scotland) Act, 1889. A Committee of Her Majesty's Privy Council was constituted, styled the Scottish Universities Committee of the Privy Council. An Executive Commission was created with power to repeal or modify any ordinance made under the Act of 1858. The Commissioners continued to exercise their powers till the end of 1897 and issued ordinances, *inter alia*, for Degrees in Arts, Science, Medicine, Law, and Divinity, for the instruction and graduation of Women, and for special study and research. They also issued an ordinance (No. 60) laying down regulations for the constitution of the Students' Representative Council, and regulations under which that Council is entitled to petition the *Senatus Academicus* and the University Court.

CHANCELLOR.

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University must have the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He nominates an Assessor in the University Court, and he is empowered to appoint a Vice-Chancellor to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

Chancellors from the year 1642.

- 1642. James Hamilton Marquis of Hamilton.
- 1660. William Cunningham, Earl of Glencairn.
- 1661. Andrew Fairfowl, Archbishop of Glasgow.
- 1664. Alexander Burnett, " "
- 1670. Robert Leighton, " "
- 1674. Alexander Burnett, " "
- 1679. Arthur Ross, " "
- 1684. Alexander Cairncross, " "
- 1687. John Paterson, " "
- 1692. John Carmichael, Earl of Hyndford.
- 1714. James Graham, Duke of Montrose.
- 1743. William Graham, " "
- 1781. James Graham, " "
- 1837. James Graham, " "
- 1875. Sir William Stirling-Maxwell, Bart., M.P.
- 1878. Walter Francis, Duke of Buccleuch and Queensberry, K.G.
- 1884. John Hamilton Dalrymple, Earl of Stair, K.T.
- 1904. WILLIAM THOMSON, BARON KELVIN OF LARGS, G.C.V.O., O.M.

RECTOR.

The Rector is elected by the matriculated students of the University, divided into four nations.¹ In the case of an equality of nations the Chancellor had, in accordance with the

¹ The nations are constituted as follows:—

1. The Natio Glottiana consists of all matriculated students born within the County of Lanark.

2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Caithness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyle, Stirling, and Dumbarton.

3. The Natio Rothseiana consists of all matriculated students born within any of the Counties of Bute, Renfrew, and Ayr.

4. The Natio Londoniana consists of all matriculated students not included in any of the other nations.

Act of 1858, the casting vote, but under the Act of 1889 the Commissioners have ordained (Ord. No. 7) that the election shall be determined by the majority of votes of all the students voting whenever the votes of the nations shall be equally divided. The Universities Commission (1858) ordained that the election should take place upon the 15th November (the 16th, if the 15th fell on a Sunday); but by Ordinance No. 139 of the Universities Commission (1889), the election is to take place on such day in the month of October or November as may be fixed by the University Court after consultation with the Senate, but the date cannot be later than the second Saturday in November in any year. The term of office is three years. The Rector is the official President of the University Court.

Rectors from 1773.

- 1773. Charles Cathcart, Lord Cathcart.
- 1775. Lord Chief Baron Montgomerie.
- 1777. Andrew Stewart, Esq. of Torrance.
- 1779. James Maitland, seventh Earl of Lauderdale.
- 1781. Right Hon. Henry Dundas.
- 1783. Right Hon. Edmund Burke.
- 1785. Robert Graham, Esq. of Gartmore.
- 1787. Adam Smith, LL.D.
- 1789. Walter Campbell, Esq. of Shawfield.
- 1791. Thomas Kennedy, Esq. of Dunure.
- 1793. William Mure, Esq. of Caldwell.
- 1795. William M'Dowall, Esq. of Garthland.
- 1797. George Oswald, Esq. of Auchincruive.
- 1799. Right Hon. Sir Ilay Campbell, Lord President.
- 1801. William Craig, a Lord of Session.
- 1803. Lord Chief Baron Dundas.
- 1805. Henry Glassford, Esq. of Dugalston.
- 1807. Archibald Colquhoun, Esq. of Killermont.
- 1809. Archibald Campbell, Esq. of Blythswood.
- 1811. Lord Archibald Hamilton.
- 1813. Thomas Graham, Lord Lynedoch.
- 1815. David Boyle, Lord Justice Clerk.
- 1817. George Boyle, Earl of Glasgow.
- 1819. Kirkman Finlay, Esq., M.P.
- 1820. Francis Jeffrey, Esq., Advocate.
- 1822. Sir James Mackintosh, M.P.
- 1824. Henry Brougham, Esq., M.P.
- 1826. Thomas Campbell, LL.D.
- 1829. Henry Petty, Marquis of Lansdowne.
- 1831. Henry Cockburn, Esq., Solicitor-General.
- 1834. Lord Stanley, M.P.
- 1836. Sir Robert Peel, Bart., M.P.

- 1838. Sir J. G. R. Graham, Bart., M.P.
- 1840. John Campbell, Marquis of Breadalbane.
- 1842. Right Hon. Fox Maule, M.P.
- 1844. Andrew Rutherford, Esq.
- 1846. Lord John Russell.
- 1847. Colonel Mure of Caldwell.
- 1848. Thomas Babington Macaulay, Esq.
- 1850. Archibald Alison, Esq., Sheriff of Lanarkshire.
- 1852. Earl of Eglinton.
- 1854. Duke of Argyle.
- 1856. Sir Edward Bulwer Lytton.
- 1859. Earl of Elgin.
- 1862. Viscount Palmerston.
- 1865. John Inglis, Lord Justice Clerk.
- 1868. Lord Stanley (afterwards Earl of Derby).
- 1871. Right Hon. Benjamin Disraeli, M.P. (Earl of Beaconsfield).
- 1877. Right Hon. William Ewart Gladstone, M.P.
- 1880. Right Hon. John Bright, M.P.
- 1883. Right Hon. Henry Fawcett, M.P.
- 1884. Edmund Law Lushington, LL.D., D.C.L.
- 1887. Right Hon. Earl of Lytton, G.C.B., G.C.S.I., C.I.E.
- 1890. Right Hon. Arthur James Balfour, M.P.
- 1893. Right Hon. Sir John Eldon Gorst, M.P.
- 1896. Right Hon. Joseph Chamberlain, M.P.
- 1899. Right Hon. Earl of Rosebery, K.G., D.C.L., LL.D.
- 1902. RIGHT HON. GEORGE WYNDHAM, M.P.

DEAN OF FACULTIES.

From the beginning there has been in the University an officer of dignity with the title of Dean of Faculty or Dean of Faculties. The duties of the office, as originally constituted, were to exercise a superintendence over the studies, and, in conjunction with the Masters, to judge of the qualifications of applicants for degrees. From the year 1772 it was the duty of the Dean, in concert with the Rector and the Minister of Glasgow, to examine the accounts of the administration of the Revenue, and to give advice to the Principal and Professors, when it was necessary for them to institute a judicial inquiry into the conduct of any of their number. By the Universities Act of 1858 the Dean of Faculties was a member of the University Court, but in the enumeration of the constituent members of the new University Court in the Act of 1889 the name does not occur. The election is made annually by the Senate at the close of the winter session.

Deans from the year 1800.

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|---|--|
| 1800. James Couper, D.D. | 1843. Sir T. Makdougall Brisbane, Bart. |
| 1802. Archd. Campbell, Esq. of Succoth. | 1845. A. Maconochie, Lord Meadowbank. |
| 1804. Gavin Gibb, D.D. | 1847. Earl of Eglinton. |
| 1806. Duncan Macfarlan, D.D. | 1849. Colonel Mure of Caldwell, M.P. |
| 1808. Gavin Gibb, D.D. | 1851. W. Lockhart, Esq., M.P. |
| 1810. Duncan Macfarlan, D.D. | 1853. Colonel Mure. |
| 1812. Gavin Gibb, D.D. | 1854. W. Lockhart, Esq. |
| 1814. Stevenson Macgill, D.D. | 1857. W. Stirling, Esq., of Keir, M.P. |
| 1815. Archibald Campbell, Esq., M.P. | 1860. J. Moncreiff, Lord Advocate. |
| 1817. Sir John Connel. | 1863. Sir A. I. Campbell of Succoth. |
| 1819. Archibald Campbell, Esq., M.P. | 1865. Henry Glassford Bell, Esq. |
| 1821. Sir John Connel. | 1868. Sir James Fergusson, Bart. |
| 1823. Archibald Campbell, Esq., M.P. | 1869. Sir Thos. E. Colebrooke, Bart., M.P. |
| 1825. Sir John Connel. | 1872. Archd. Orr Ewing, Esq., M.P. |
| 1827. Archibald Campbell, Esq., M.P. | 1876. Alexander B. M'Grigor, LL.D. |
| 1829. Sir John Connel. | 1879. James King, Esq. |
| 1831. Archibald Campbell, Esq. | 1882. R. W. Cochran-Patrick, LL.D., M.P. |
| 1833. Sir A. Campbell, Bart. | 1885. Alexander Crum, Esq., M.P. |
| 1835. Archibald Campbell, Esq. | 1888. Robert Berry, LL.D. |
| 1837. Sir A. Campbell, Bart. | 1896. W. P. Dickson, D.D., LL.D. |
| 1839. Kirkman Finlay, Esq. | 1901. The Rt. Hon. Lord Kelvin, G.C.V.O. |
| 1841. Lord Dunfermline. | 1904. SIR JAMES KING, BART., LL.D. |

PRINCIPAL.

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI., in 1577. It is in the appointment of the Crown. The Principal is President of the Senatus Academicus ; and is also, *ex officio*, a member of the University Court.

Principals from the year 1574.

- | | |
|----------------------------|-----------------------------|
| 1574. Andrew Melville. | 1690. William Dunlop. |
| 1580. Thomas Smeaton. | 1701. John Stirling. |
| 1586. Patrick Sharpe. | 1728. Neil Campbell. |
| 1615. Robert Boyd. | 1761. Wm. Leechman, D.D. |
| 1622. John Cameron, D.D. | 1786. Archd. Davidson, D.D. |
| 1626. John Strang, D.D. | 1803. William Taylor, D.D. |
| 1650. Robert Ramsay. | 1823. Duncan M'Farlan, D.D. |
| 1653. Patrick Gillespie. | 1858. Thomas Barclay, D.D. |
| 1661. Robert Baillie, D.D. | 1873. John Caird, D.D. |
| 1662. Edward Wright. | 1898. ROBERT HERBERT STORY, |
| 1684. James Fall. | D.D., LL.D. |

UNIVERSITY COURT.

The University Court consists of (a) the Rector, (b) the Principal, (c) the Lord Provost of Glasgow for the time being, (d) an Assessor nominated by the Chancellor, (e) an Assessor nominated by the Rector, (f) an Assessor nominated by the Lord Provost, Magistrates, and Town Council of Glasgow, (g) four Assessors elected by the General Council, (h) four Assessors

elected by the *Senatus Academicus*. There is a further provision in the Act of 1889 for the representation of affiliated Colleges.

Assessors since the University Court was constituted.

CHANCELLOR.

- 1859. John Robertson, D.D., Glasgow.
- 1865. A. Sym, D.D., New Kilpatrick.
- 1870. James Pearson, D.D., Strathblane.
- 1874. Robert Jamieson, D.D., Glasgow.
- 1878. J. A. Campbell, LL.D., Stracathro.
- 1887. Sir James King, Bart., LL.D.
- 1904. HENRY E. GORDON, Esq., OF AIKENHEAD.

RECTOR.

- 1860. Thomas Buchanan, Esq.
- 1863. Walter Buchanan, Esq., M.P.
- 1866. Archibald Orr Ewing, Esq.
- 1869. James A. Campbell, LL.D.
- 1878. Alexander Crum, Esq.
- 1880. Charles Cameron, M.D., LL.D., M.P.
- 1884. A. B. McGrigor, LL.D.
- 1887. James Grahame, Esq.
- 1890. Lord Blythwood, LL.D.
- 1893. Matthew P. Fraser, LL.B.
- 1896. David Murray, LL.D.
- 1899. Alexander Ure, LL.B., M.P., Q.C.
- 1902. ALLAN F. BAIRD, Esq.

LORD PROVOST, MAGISTRATES, AND TOWN COUNCIL OF GLASGOW.

- 1889. James Colquhoun, LL.D.
- 1899. ROBERT M. MITCHELL, Esq.

GENERAL COUNCIL.

- 1859. Andrew Bannatyne, LL.D.
- 1864. Lord Kinloch.
- 1867. Anderson Kirkwood, LL.D.
- 1887. R. W. Cochran-Patrick, LL.D.
- 1889. David Hannay, Esq.
- 1889. Hector C. Cameron, M.D.
- 1889. Sir John Neilson Cuthbertson.
- 1891. Rev. J. W. King, M.A., D.D.
- 1891. D. C. McVail, M.B.
- 1893. Hector C. Cameron, M.D.
- 1893. Sir John Neilson Cuthbertson.
- 1895. Rev. J. W. King, D.D.
- 1895. D. C. McVail, M.B.
- 1897. Hector C. Cameron, M.D.
- 1897. Sir John Neilson Cuthbertson, LL.D.
- 1899. D. C. McVail, M.B.
- 1899. Sir James Bell, Bart.

1900. William Robertson Copland, Esq.
 1901. SIR JOHN NEILSON CUTHBERTSON, LL.D.
 1901. WILLIAM ROBERTSON COPLAND, Esq.
 1903. D. C. M'VAIL, M.B.
 1903. DAVID MURRAY, LL.D.

SENATUS ACADEMICUS.

- 15th Nov., 1859. Professor W. Ramsay, M.A.
 11th Dec., 1863. Professor R. Buchanan, LL.D.
 12th Dec., 1867. Professor Allen Thomson, M.D.
 11th Jan., 1872. Professor Sir W. Thomson.
 13th Jan., 1876. Professor Cowan, M.D.
 29th Jan., 1880. Professor Berry, M.A., LL.D.
 31st Jan., 1884. Professor Dickson, D.D., LL.D.
 9th Feb., 1888. Professor G. G. Ramsay, LL.D.
 28th Nov., 1889. Professor Leishman, M.D.
 28th Nov., 1889. Sheriff Berry, LL.D.
 28th Nov., 1889. Professor Stewart, D.D.
 28th Nov., 1890. Professor Ramsay, LL.D.
 30th Nov., 1891. Professor Leishman, M.D.
 28th Nov., 1892. Sheriff Berry, LL.D.
 28th Nov., 1893. Professor Stewart, D.D.
 30th Nov., 1893. Professor Gairdner, M.D., LL.D.
 28th Nov., 1894. Professor Jack, LL.D.
 30th Nov., 1895. Sir W. T. Gairdner, K.C.B., M.D., LL.D.
 28th Nov., 1896. Sheriff Berry, LL.D.
 28th Nov., 1897. Professor Stewart, D.D.
 28th Nov., 1898. Professor Adamson, LL.D.
 30th Nov., 1899. Professor Young, M.D.
 28th Nov., 1900. PROFESSOR MOIR, LL.D.
 28th Nov., 1901. PROFESSOR STEWART, D.D.
 6th Mar., 1902. Professor Raleigh, M.A.
 28th Nov., 1902. PROFESSOR RALEIGH, M.A.
 15th Jan., 1903. Professor Muir, M.A., M.D.
 30th Nov., 1903. PROFESSOR MUIR, M.A., M.D.

The Rector's Assessor continues in office three years, and the other Assessors four years.

Under the Universities Act, 1858, the Court has power :

1. To review all decisions of the Senate, and to be a Court of Appeal from the Senatus, except as otherwise provided in the Universities Act.
2. To effect improvements in the internal arrangements of the University, after due communication with the Senate, and with the sanction of the Chancellor: provided that all such proposed improvements be submitted to the General Council for consideration.
3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching and other duties imposed on the Professors.
4. To fix and regulate, from time to time, the fees in the several Classes.
5. Upon sufficient cause shown, and after due investigation, to censure any member of Senate, or to suspend him from office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to

require him to retire on a retiring allowance, or to deprive him of office; and during the suspension of any Professor, to make provision for the teaching of his class: provided always, that no such sentence of censure, deprivation, etc. shall have effect until approved by His Majesty in Council.

By Section 19 any of the Rules and Ordinances enacted by the Universities Commissioners under the Act, may be altered or revoked by the University Court of the University to which they are applicable, but only with the written consent of the Chancellor, and with the approval of His Majesty in Council.

By the Universities (Scotland) Act, 1889, the University Court is a body corporate with perpetual succession and a common seal; and all the property belonging to the University at the passing of the Act is now vested in that body.

By the same Act, the University Court, in addition to the powers conferred upon it by the Act of 1858, has power:

1. To administer the whole revenue and property of the University, including share of annual Government Grant, and bursary and other mortifications.

2. To review any decision of the Senate, appealed against by a member of Senate or other member of the University interested,¹ and to receive representations and reports from the Senate and the General Council.

3. To review on representation by any member of the University Court or by any member of Senate, any decision of the Senate in the exercise of its powers of regulating and superintending the teaching and discipline of the University; but decisions in matters of discipline can be reviewed only on appeal by a member of Senate or by a member of the University directly affected.

4. To appoint professors to chairs in University patronage; to appoint examiners and lecturers; and to recognise for graduation purposes the teaching of any college or individual teacher, under any regulations laid down by the Commissioners, which regulations, after the expiration of the powers of the Commissioners, may from time to time be modified or altered by the Universities Committee.

5. To define on application by any member of the Senate the nature and limits of a professor's duties under his commission, subject to appeal to the Universities Committee.²

6. To take proceedings against a principal or professor, University lecturer, assistant, recognised teacher or examiner, or any other person employed in teaching or examining.

7. To appoint from persons not being members of Senate one third of the members of any standing committee or committees charged, by ordinance of the Commissioners, with superintendence of University libraries or museums, and to review any decision of the Senate regarding the recommendations of such committee or committees.

8. To appoint committees of its own number, consisting of not less than five members, to report on any business entrusted to them or to carry out special instructions.

¹ An appeal against any decision of the Senate must be lodged with the Secretary of the University Court within fourteen days from the date of the issue of such decision. See Ordinance No. 5.

² Ordinance No. 144, which was issued on 29th March, 1895, and came into force immediately after the expiration of the powers of the Commissioners (1889), empowers the University Court at any time to revise and adjust the terms of the commission to be issued at the next vacancy of any chair, with regard to the number of lectures and the period of instruction.

9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

10. After the expiration of the powers of the Commission to found new professorships with the approval of the Universities Committee.¹ After such expiration no new professorship shall be founded otherwise.

By Section 21 of the Act of 1889 the University Court has power to make new ordinances, with the approval of His Majesty in Council :

1. With respect to the appropriation of the sum allotted to the University by the Commissioners out of the annual grant.

2. Altering or revoking any of the ordinances affecting the University which have been or may be framed and passed under the Act of 1858 or the Act of 1889, and making new ordinances: provided that such ordinances, before being submitted to His Majesty for approval, have been communicated by the University Court to the Senate, the General Council, and the University Courts of the other Universities, and have been laid for twelve weeks before both Houses of Parliament.

The Court is entrusted with the patronage of several of the Professorships, appoints the additional Examiners for Degrees, and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Seven Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the regulation and superintendence of the teaching and discipline of the University. It appoints two-thirds of the members of any standing committee or committees charged by ordinance of the Commissioners with the immediate superintendence of University libraries or museums. It receives in the first instance all reports by such committee or committees, and, subject to the review of the University Court, it may confirm, modify, or reject the recommendations in such reports. The Senate continues to possess and exercise the powers possessed by it before the passing of the Act of 1889 so far as they are not modified or altered by that Act or by the Act of 1858. The Principal, as President, has a deliberative and a casting vote. One third of the Senate constitute a quorum.

¹ Ordinance No. 144 enjoins the University Court before proceeding to the foundation of any new Professorship, to ascertain that there are sufficient means for its endowment, and also to take into consideration the contingent claim which the Professor may have to a pension.

FACULTIES.

The Universities Commissioners, by Ordinance No. 31, dated 5th June, 1893, as amended by the University Court Ordinance No. viii., dated 12th February, 1903, settled the constitution of the several Faculties in this University, as follows:—I. The Faculty of Arts consists of the Professors of the following subjects, viz., English Language and Literature, Humanity, Greek, Hebrew and Semitic Languages, Mathematics, Natural Philosophy, Logic and Rhetoric, Moral Philosophy, History, Political Economy.¹ II. The Faculty of Science consists of the Professors of the following subjects, viz., Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Geology, Botany, Anatomy, Physiology, Civil Engineering and Mechanics, Naval Architecture. III. The Faculty of Medicine consists of the Professors of the following subjects, viz., Chemistry, Zoology, Botany, Anatomy, Physiology, Pathology, Materia Medica, Medicine, Surgery, Midwifery, Forensic Medicine, Clinical Medicine, Clinical Surgery. IV. The Faculty of Law consists of the Professors of the following subjects, viz., Law, Forensic Medicine, Conveyancing, Political Economy.¹ V. The Faculty of Divinity consists of the Professors of the following subjects, viz., Divinity, Divinity and Biblical Criticism, Ecclesiastical History, Hebrew and Semitic Languages. The University Court has power to transfer Chairs from one Faculty to another, and in the event of the foundation of new Chairs, to determine to which Faculty or Faculties such Chairs shall belong.

The Professors constituting each Faculty annually elect one of their number to be Dean of the Faculty.

LECTURERS.

By Ordinance No. 17² of the Universities Commission (1889), the University Court is empowered to appoint, after consultation with the Senatus, Lecturers, whose teaching shall (unless otherwise determined by the University Court) qualify for graduation. They are appointed for a period not exceeding five years, but may be re-appointed. University Assistants or Demonstrators are eligible for appointment as Lecturers and

¹ See Ordinance No. 149, Section i.

² This ordinance is printed at length in the University Calendar for 1893-94, at pp. 504, 505.

vice versa ; and both offices may be held at the same time by the same person.

Ordinance No. 65 provides that the classes of University Lecturers shall be conducted at the seat of the University, *i.e.* in the city of Glasgow and the immediate neighbourhood thereof, that no classes conducted by Lecturers elsewhere shall qualify for graduation in any Faculty, and that University Lecturers shall be in all respects subject to the discipline of the *Senatus Academicus* and of the University Court.

BOARDS OF STUDIES.

By Ordinance No. 11 of the Universities Commission (1889), it is provided that the Senate shall institute Boards of Studies corresponding as nearly as may be to the departments of study for graduation in Arts. Each Board of Studies consists of the Principal, the Dean of the Faculty of Arts, and such other members of the Senate and Lecturers in the University as the Senate may from time to time select, a member of the Board being appointed Convener by the Senate. The functions of these Boards are defined in Ordinance No. 11, sections xviii. and xix.

Provision is made in Ordinance No. 42 for the institution of one or more Boards of Studies in each of the Faculties of Medicine and Science. In Medicine the constituent members of the Board or Boards are Professors in the Faculty of Medicine, together with such Professors in other Faculties whose subjects qualify for graduation in Medicine, and such Lecturers in the University as the Senate may from time to time select. The Board or Boards of Studies in Science are similarly constituted *mutatis mutandis*. The Dean of the Faculty of Medicine is Convener of each Board of Studies in Medicine ; the Senate appoints the Convener of each Board of Studies in Science.

UNIVERSITY ASSISTANTS OR DEMONSTRATORS.

By Ordinance No. 17¹ of the Universities Commission (1889), the University Court is empowered to determine, after consultation with the *Senatus*, the number and grade of the Assistants, if any, to be assigned to each Professor. The

¹ See second note on page 43.

appointments are made by the University Court on the recommendation of the Professors. The duties of each Assistant are defined by the Professor, with the approval of the Senate. The Assistants are recognized as Officers of the University, and are styled University Assistants or Demonstrators, as the University Court may determine.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy; the Muirhead Demonstratorship, founded in 1877, to the Chair of Physiology; and the Baxter Demonstratorship in Geology, founded in 1889, to the Chair of Natural History.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, and designated, in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

EXAMINERS FOR DEGREES.

By Ordinance No. 13, Sections xiv.—xvi., of the Universities Commission (1889), the Examiners for graduation in Arts, Science, and Medicine respectively are the Professors whose subjects qualify for graduation, together with such Lecturers in the University and such additional Examiners, appointed by the University Court, as the Court may deem necessary. In the case of Medicine, the Court is required to make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

By Ordinances No. 39, Section vii., and No. 40, Section vii., of the Universities Commission (1889), the Examiners for graduation in Law are the Professors and Lecturers whose subjects qualify for graduation, and additional Examiners appointed by the University Court.

By Ordinance No. 63, Section ii., of the Universities Commission (1889), the Examiners for graduation in Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

GENERAL COUNCIL.

[For names, etc., of Members, see Appendix.]

The General Council as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), by the Representation of the People (Scotland) Act, 1868 (31 and 32 Vict., chap. 84), and by the Universities Elections Amendment (Scotland) Act, 1881 (44 and 45 Vict., chap. 40), consists of the following *ex officio* Members, viz., the Chancellor, the Members of the University Court from and after their first election, and the Professors, and also of the following persons after registration, viz., all Masters of Arts of the University, and all persons on whom the University has, after Examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of Science, or any other Degree instituted since 13th July, 1868; and also all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually in the month of December, for the year following, and includes the names of all members entered on the Registration Book on or before the 30th day of November in each year. The Registration Fee, which is a payment for life, is 20s.

By section 16 of the Act 44 and 45 Vict., chap. 40, it is enacted that no person shall be allowed, after examination, to graduate at any of the Universities of Scotland until he shall have paid the Registration Fee; and it is further enacted that every person who has hitherto been, or who shall in the future become, *ex officio*, a member of the General Council of any of the Universities shall, on payment of the Registration Fee, be put and continued on the Register of Members of General Council of such University during his life, and shall be entitled to all

the privileges of a Member of Council. The Act also provides that no person, subject to any legal incapacity, shall be entitled to vote at any parliamentary election, or exercise any other privilege as a member of the General Council.

The corrupt payment of any Registration Fee is punishable as bribery.

The Council meets twice every year—viz., on the last Wednesday of October, and the first Wednesday of April. In addition to these statutory meetings the Council may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them, or to carry out instructions given to them by the Council. The quorum of the General Council has been fixed by the Universities Commissioners at ten for every complete thousand or fraction of a thousand on the Register, so that for the present year seventy members are requisite to constitute a quorum, there being 6363 names on the Register, but this provision does not apply to the statutory half-yearly meetings. It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time to the University Court, who shall return to the Council their deliverances thereon. The annual reports as to the statistics of attendance and as to the finances of the University, made by the University Court to the Secretary for Scotland, are to be laid by him before the General Council. To it are also to be communicated all new ordinances, or changes of existing ordinances, which may be proposed by the University Court.

The Chancellor and four of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance No. 9 of the Universities Commission (1889). The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Chancellor's Assessor; whom failing, the Rector's Assessor. In the absence of all these officials, a Chairman shall be elected by the meeting; but in the election of Assessors the members of Senate may not take part.

The General Councils of the Universities of Glasgow and Aberdeen jointly return a representative to Parliament. The Vice-Chancellor of Glasgow University is the returning officer.

Members of Parliament for the Universities of Glasgow and Aberdeen.

1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.

1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.

1876. Right Hon. William Watson, LL.D., Lord Advocate.

1880. Right Hon. JAMES ALEXANDER CAMPBELL, LL.D.

STUDENTS' REPRESENTATIVE COUNCIL.

The constitution and functions of the Students' Representative Council are regulated by Ordinance No. 60, the provisions of which are as follows :—

I. The Students' Representative Council in each University shall submit to the University Court for approval the regulations under which it has been formed or now exists, and these regulations as approved, or with such alterations as may from time to time be approved by the University Court, shall form the constitution of the Students' Representative Council, and shall, subject to the provisions of this Ordinance, determine the functions thereof, and the mode of election thereto.

II. After the University Court has approved of the constitution of a Students' Representative Council in any University, alterations in the said constitution shall be of no effect unless and until they shall receive the approval of the University Court.

III. (1) The Students' Representative Council shall be entitled to petition the Senatus Academicus with regard to any matter affecting the teaching and discipline of the University, and the Senatus Academicus shall dispose of the matter of the petition, or shall, if so prayed, forward any such petition to the University Court, with such observations as it may think fit to make thereon.

(2) The Students' Representative Council shall be entitled to petition the University Court with regard to any matter affecting the students other than those falling under the immediately preceding sub-section.

(3) Nothing contained in this section shall be held to prejudice any right of appeal which may be competent under section 6, sub-section 2, of the Universities Act, 1889, nor the powers and jurisdiction of the Senatus Academicus with regard to the teaching and discipline of the University.

The Council at present consists of representatives (both men and women) from the different Faculties in the University,

and its aims are (1) to represent the Students in matters affecting their interests; (2) to afford a recognized means of communication between the Students and the University authorities; (3) to promote social and academic unity among the Students. A Union Committee appointed by the Council completed in Session 1889-90 the arrangements for opening the "Glasgow University Union." The Council has various Sub-Committees—an Inter-Universities Committee, a Magazine Committee, which conducts during the winter session the "Glasgow University Magazine" (published weekly), an Amusements Committee, a Lodgings Committee, and a Book Exchange Committee.

Presidents of the Students' Representative Council.

1885-86. R. M. Wenley, M.A.	1895-96. John S. Thomson, M.A.
1886-87. Gavin Lambie, M.A.	1896-97. Hyam Goodman, M.A.
1887-88. C. E. Robertson, M.B., C.M.	1897-98. Arth. S. Middleton, M.A.
1888-89. John H. Harley, M.A.	1898-99. James M. Black, M.A.
1889-90. Robert Bell, M.B., C.M.	1899-1900. Ivy M'Kenzie, M.A., B.Sc.
1890-91. William Newlands.	1900-1901. John Muir, B.Sc.
1891-92. John White, M.A.	1901-2. E. R. Mitchell, M.A.
1892-93. R. S. Horne, M.A.	1902-3. D. A. Dick.
1893-94. John H. Pagan, B.D.	1903-4. G. J. SPREULL, LL.B.
1894-95. W. M. R. Pringle, M.A.	

STUDENTS.

Number of Students in the several Faculties, Session 1903-1904:—

MEN.

In Arts (including Summer Matriculation of 1903, 6),	-	-	674
Science (including Summer Matriculation of 1903, 11),	-	-	239
Theology (including Summer Matriculation of 1903, 4),	-	-	48
Medicine (including Summer Matriculation of 1903, 81),	-	-	616
Law, - - - - -	-	-	192
Arts and Medicine, - - - - -	-	-	6
Arts and Science, - - - - -	-	-	2
Science and Medicine, - - - - -	-	-	1
Arts and Law, - - - - -	-	-	4
Arts and Theology, - - - - -	-	-	2
Single class enrolment, - - - - -	-	-	23
			1807

WOMEN.

In Arts (including Summer Matriculation of 1903, 1),	-	-	311
Science, - - - - -	-	-	11
Medicine (including Summer Matriculation of 1903, 23),	-	-	65
Arts and Medicine, - - - - -	-	-	5
Single class enrolment, - - - - -	-	-	3
			395

Total, - - - - - 2202

Ordinance No. 50 of the Universities Commission (1889) requires that each student shall pay a matriculation fee of One Guinea, at the commencement of each winter session, for the whole academical year then next ensuing; and any student desirous of attending a class or classes during a summer session, without having matriculated at the commencement of the immediately preceding winter session, shall in respect of such summer session pay a matriculation fee of half a guinea. Ordinance No. 147 contains the following regulation with regard to matriculated students:—No person shall be deemed to be a matriculated student in any University or shall enjoy any of the privileges of a matriculated student unless, in addition to paying the matriculation fee, he is enrolled as a student in attendance in one or more classes in the University, and has paid the fees entitling him to such attendance: provided that nothing herein contained shall affect the right of the University Court to exact a fee in lieu of and not exceeding the matriculation fee from any candidate for any examination or for graduation, not being at the time a matriculated student, in addition to the fee payable for such examination or graduation. The University Court is empowered in special circumstances to permit persons who have not matriculated to attend any single class in any Faculty, on payment of an Entrance Fee of Five Shillings in addition to the authorized class fee, subject to the following provisions, viz. :—(1) That attendance on any class without payment of the matriculation fee shall not qualify for graduation in any Faculty, (2) that persons who have not paid the matriculation fee shall not be entitled to a certificate of attendance on any class, and (3) that payment of such entrance fee shall not confer any University privilege other than the right of attendance on such class. Men students matriculate at the University, and women students at Queen Margaret College, on and after 12th October. Matriculation closes on 4th November.

Students are entitled, after matriculation, to the privilege of admission to the University Library, and, under certain conditions, to the Hunterian Museum; they are also entitled to vote for the Lord Rector. They are classified as students in Arts, Science, Medicine, Law, and Divinity, according to the nature of their studies; and they are likewise, for academical purposes, divided into Togati and Non-Togati—the students of

the Humanity, Greek, Logic, Ethics, and Natural Philosophy classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet cloak.

Under the Non-Togati, or ungowned students, are comprehended all those who, having finished their course of instruction in Arts, are prosecuting their studies in the other Faculties, with a more immediate view to their intended professions; and it comprises also other persons resident in the city or its vicinity, who, though engaged in other avocations, are disposed to cultivate literary pursuits, or to extend their acquaintance with some favourite branches of learning or science, by attending the lectures given at the University.

A distinction is also made between Public and Private students. The former are required to undergo examinations, and to read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the several Faculties.

By Ordinance No. 18¹ of the Universities Commission (1889) the University Court was empowered to admit women to graduation, and to provide for their instruction, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. Under this ordinance women were for the first time admitted as matriculated students of this University in Session 1892-93.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University. In the Royal Infirmary certain wards are appropriated to the clinical instruction of women.

UNIVERSITY CHAPEL.

The University Chapel is under the management of a Committee of Senate, of which the Principal is Convener.

Public Worship is celebrated on certain Sundays during the Winter Session at 2.30 p.m., in the Bute Hall. The services are conducted by graduates of this University and other clergymen of various denominations.

GYMNASIUM.

This building was erected by public subscription, and fitted

¹ This ordinance is given in full in the *University Calendar* for 1892-93, pp. 504-506

according to the most improved models, under the superintendence of the late Mr. Maclaren of Oxford, at a total cost of £2600, and was opened for the first time in January, 1872.

Gymnastic, Physical Culture, Boxing, and Fencing classes are held during the session. Mr. James Hughes conducts the classes in Gymnastics and Fencing, and Mr. John Boyle is Instructor in Boxing. Gymnastic classes meet on Mondays, Wednesdays, and Fridays, from 10 A.M. to 1 P.M., and from 4.30 P.M. to 5.30 P.M. Each class meets three times a week, and students may join any class which is convenient for them.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and a special evening class is formed for their benefit, which meets on Mondays and Thursdays from 8 P.M. till 10 P.M. Students may join this class, if they wish.

Fees.—Gymnastics. *For all Students:* One month, 5s.; Two months, 8s. 6d.; Three months, 12s.; Six months, 20s. *For Non-Students:* the Quarter (*i.e.* twice a-week for three months), 15s.; whole season (seven months), 35s. Fencing and Boxing: 10s. for a course of twelve lessons. Special arrangements are made for the summer session.

The Oxford Silver Medal, presented annually by the late Mr. Maclaren, for competition among the students, is continued by the Gymnasium, and, at the competition in March, 1904, was gained by B. J. Franklin-Adams. For the Oxford Bronze Medal, open to non-students, there were no entries last year.

A Badge presented by the Ladies of the University is awarded to the runner-up in the medal competition; in 1904 it was gained by J. L. Ewan.

In 1899 Professor Ramsay presented to the Gymnasium a Silver Challenge Cup for annual competition among teams representing the four Nations into which students are divided in voting at the Rectorial elections. In the competition held in March, 1904, the winning team was Loudoniana, composed of the following members: B. I. Franklin-Adams (Captain), J. L. Ewan, D. E. Finne, and W. J. Smith.

Gymnastic classes for members of Queen Margaret College are also arranged.

The Gymnasium is managed by a joint-committee of professors and students.

Hon. President, Professor G. G. Ramsay, LL.D.

Hon. Treasurer, Alan E. Clapperton, B.L., 91 West Regent Street, Glasgow.

Hon. Secretary, A. C. Baird, M.A., Cairnmount, Woodburn Avenue, Airdrie.

ARMY COMMISSIONS FOR UNIVERSITY CANDIDATES.

1. Graduates in Arts or in Science of this University, and students who have passed all the examinations for the Degree of M.A. or for the Degree of B.Sc., are eligible for Commissions in the Cavalry and Infantry of the line. The limits of age are from 17 to 23.

2. Students of this University who have passed "the Examination of Candidates for the Army," are also eligible for Commissions. They are required to attend one class in each of the following three departments, viz.: (a) Latin or Greek; (b) Logic or Moral Philosophy or English Literature; (c) Mathematics or Natural Philosophy,—and to pass the examination on the M.A. standard in the three subjects in which they have attended classes. The limits of age in this case are from 17 to 22.

Candidates for Certificates of having passed the Examination for the Army must enter their names and pay the Fees at the Matriculation Office at the same times as Candidates for the M.A. Examinations. The Fee for the Examination is Two Guineas.

TRAINING FOR THE HOME CIVIL SERVICE, THE INDIAN CIVIL SERVICE, AND EASTERN CADETSHIPS.

The Senate desire to make known the facilities offered to the students of the University who wish to prepare for the open competition for these appointments while carrying on their studies for the M.A. or B.Sc. degree. The range of subjects and the scale of marks are well adapted to the course of study pursued by the student for the Honours degree in Arts. Intending candidates should in all cases read for Honours—in at least one group. The age limits allow ample time for a second Honours school—if thought advisable; and the combination of Classical Honours with those of any of the other departments—such as Mathematics and Natural Philosophy, History, English, Philosophy, Economic Science, or Modern Languages—would be extremely valuable for the purpose. Students of Mathematics may be more fitted to take up the

scientific subjects—Physics, Chemistry, Botany, Zoology, Geology, etc. Suitable preparation for these will be found in the courses for the degree of B.Sc. in Pure Science, and it is believed that the regulations now in force will make these subjects specially valuable to students of this University. Some of the courses for the degrees in Law are also recommended to candidates.

The following table shows the subjects of examination, with the marks assigned to each, and also the classes in the University which are suitable in each case.

N.B.—*The regulations are liable to alteration from year to year.*

<i>Subject of Examination.</i>	<i>Marks.</i>	<i>Classes in the University.</i>
Latin Language and Literature, -	750	Latin: Honours.
Roman History, - - - - -	400	Latin: Honours: Roman Law.
Greek Language and Literature, -	750	} Greek: Honours.
Greek History, - - - - -	400	
Mathematics (Pure and Applied), -	} 900	{ Mathematics: Intermediate and Advanced Honours.
Advanced Mathematics (Pure and Applied), - - - - -		
	900	{ Natural Philosophy: Ordinary and Honours (both sections).
Physics - - - - -	} 600 ¹	{ Natural Philosophy: Ordinary: and Physical Laboratory.
Chemistry, - - - - -		
Geology, - - - - -	600 ¹	Chemistry and Chemical Laboratory.
Botany, - - - - -	600 ¹	Geology.
Zoology, - - - - -	600 ¹	Botany and Botanical Laboratory.
Animal Physiology, - - - - -	600 ¹	Zoology and Zoological Laboratory.
English Composition, - - - - -	500	{ Physiology and Physiological Laboratory.
English Language and Literature, -	500	{ English: Ordinary.
English History, - - - - -	500	
General Modern History (Special Period), - - - - -	500	{ English: Ordinary and Honours.
Logic and Mental Philosophy, - - -	400	{ History: Ordinary.
Moral Philosophy, - - - - -	400	
Political Economy and Economic History, - - - - -	500	{ Constitutional Law and History.
Political Science, - - - - -	500 ²	
English Law, - - - - -	500	{ History: Honours.
Roman Law, - - - - -	500	
French Language and Literature, -	500	Logic.
German " " " - - - - -	500	Moral Philosophy.
Sanskrit " " " - - - - -	500	Political Economy.
Arabic " " " - - - - -	500	

Candidates may profess any or all of these branches of know-

¹ Any number not exceeding three to be taken.

² Preparation for this subject may be obtained in the Political Philosophy Class, in the Moral Philosophy (Honours) Class, in the Political Economy (Honours) Class, and in certain of the Law Classes.

ledge, but not more than three of the Natural Science Subjects may be taken by the same candidate. (See footnote, on p. 54.) No subjects are obligatory. The marks assigned in each branch will be subject to such deduction as the Civil Service Commissioners may deem necessary in order to secure that no credit be allowed for merely superficial knowledge. No deduction will be made in the subjects of English Composition and Mathematics.

Age Limits.

Home Civil Service. Clerkships: Class I.

Candidates must have attained the age of 22, and must not have attained the age of 24, on the first day of the examination.

Indian Civil Service.

Candidates must have attained the age of 21, and must not have attained the age of 23, on the first day of the year in which the examination is to be held.

Eastern Cadetships.

Candidates must have attained the age of 21, and must not have attained the age of 24, on the first of August in the year in which the examination is held.

N.B.—Students who propose to enter for this examination are strongly advised to determine at the beginning of their course what line of study they can best follow, and to acquaint their Professors or Lecturers with their plans. Full particulars with regard to the competition will be found in the publications of the Civil Service Commission, which may be consulted in the University Reading-Room.

On this subject the Senate has appointed a Committee consisting of Professors Jack, Jones, Smart, Phillimore, Gray, Medley, Bower, Latta, and Mr. J. M. Irvine—Professor Jones, convener, and Professor Medley, secretary. The members of this Committee will be glad to give any further information or advice.

APPOINTMENTS FOR STUDENTS AND GRADUATES.

On 29th January, 1903, the Senate appointed the Principal, Professors Ramsay, Stewart, Glaister, Muir, Gray, Medley, Raleigh, Latta, and Kerr, together with the Lecturer in French, M. Martin, a Committee for the purpose of collecting and communicating information regarding appointments suitable for students and graduates. Professor Latta is convener, and Mr. W. Innes Addison, secretary.

II.—TABLE OF UNIVERSITY FEES.

I.—MATRICULATION FEES [Ord. No. 50, Sec. i.].

At the commencement of each Academical Year, which extends from 1st October to 30th September, and includes both Winter and Summer Sessions, ...	£1 1 0
At the commencement of each Summer Session, if the Student has not matriculated for the Academical Year then current,	0 10 6

II.—ENTRANCE FEES [Ord. No. 50, Sec. ii.].

On admission of persons who are not matriculated Students to any single class, if permitted by the University Court in special circumstances.	0 5 0
N.B.—Attendance under this Regulation does not qualify for Graduation, and no Certificate for such attendance is given. The Entrance Fee confers no University privileges other than the right of attendance above mentioned.	

III.—ENROLMENT FEES [Ord. No. 12, Sec. v., Ord. No. 14, Sec. viii. 5].

At the commencement of each year of attendance on the lectures of Extra-Academical Teachers in Glasgow, whose Lectures are recognised for Graduation in Medicine or Science,	1 1 0
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IV.—EXAMINATION FEES.

Preliminary Examinations in Arts, Science, or Medicine —[Ord. No. 13, Sec. xii.].	
On each entry for Examination,	0 10 6
Degree of Master of Arts (M.A.)—[Ord. No. 50, Sec. iii.].	
The Fee for this Degree is	5 5 0
Payable £1 1s. on entering for Examination in each subject till £5 5s. are paid.	
Degree of Bachelor of Science (B.Sc.)—[Ord. No. 50, Secs. iv.—vii.].	
The Fee for this Degree is	6 6 0
Payable £1 1s. on entering for Examination in each subject till £6 6s. are paid.	
Diploma in Education—	
On entering for Examination,	2 2 0
Certificate in Engineering Science—	
On entering for last subject of Examination,	1 1 0
Degree of Doctor of Letters (D.Litt.)—[Ord. No. 62, Sec. xv.].	
On lodging Thesis,	10 10 0
Degree of Doctor of Philosophy (D.Phil.)—[Ord. No. 62, Sec. xiv.].	
On lodging Thesis,	10 10 0
Degree of Doctor of Science (D.Sc.)—[Ord. No. 50, Secs. viii.—x.].	
On lodging Thesis,	10 10 0

III.—SEPARATE FACULTIES AND CLASSES.

The University Classes will meet as follows, daily, unless otherwise specified :—

WINTER SESSION 1904-5.

I.—ARTS.

THURSDAY, 13TH OCTOBER, 1904.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Latin,</i>	8 a.m. or 9 a.m. and 1 p.m.,	£3 3	
— <i>Honours,</i>	1 p.m.,	3 3	} PROF. RAMSAY.
— <i>Prose,</i>	1 p.m., Wed. or 11 a.m., Thurs.,	1 1	
<i>Greek,</i>	8 a.m.,	3 3	} PROF. PHILLIMORE.
— <i>Honours,</i>	12 noon,	3 3	
— <i>Prose,</i>	12 noon, once weekly,	1 1	
<i>Classical Archaeology,</i>	(see p. 71),		} MR. GEORGE MACDONALD.
<i>English,</i>	11 a.m.,	3 3	
— <i>Second Session,</i>	Mon., Wed., and Frid.,	2 2	} PROF. RALEIGH.
— <i>Honours,</i>	12 noon,	3 3	
<i>British History,</i>	10 a.m.,	3 3	} Mr. J. L. Morison.
<i>French,</i>	11 a.m.,	3 3	
— <i>Honours,</i>	12 noon, three days weekly (see p. 74),	3 3	} M. Charles Martin.
<i>German,</i>	10 a.m.,	3 3	
— <i>Honours</i>	12.15 p.m. Mon., Thurs., and alternate Wed.,	3 3	} Mr. George P. Thistlethwaite.
<i>Italian,</i>	3 p.m.,	3 3	
— <i>Honours,</i>	(see p. 76),	3 3	} Signor F. Agnoletti.
— <i>Elementary,</i>	(see p. 76),	2 2	
<i>Hebrew, Junior,</i>	10 a.m.,	3 3	} PROF. ROBERTSON and
— <i>Senior,</i>	9 a.m.,	3 3	
<i>Arabic or Syriac,</i>	(see p. 138),	2 2	} MR. T. H. WEIR.
<i>Logic and Metaphysics,</i>	9 a.m.,	3 3	
— <i>Honours,</i>	1 p.m.,	3 3	} PROF. LATTA.
<i>Moral Philosophy,</i>	8 a.m.,	3 3	
— <i>Honours,</i>	12 noon,	3 3	} PROF. JONES.
<i>Political Economy,</i>	2 p.m.,	3 3	
— <i>Honours,</i>	3 p.m.,	3 3	} PROF. SMART.
<i>Education (Theory, History, and Art of),</i>	4 p.m.,	3 3	
<i>Philosophy of Law (see p. 130),</i>	4.30 p.m., Mon., Th.,	3 3	} Mr. John Clark.
<i>Mathematics,</i>	9 a.m., or 12 noon	3 3	
— <i>Honours (Intermed.),</i>	10 a.m., or 11 a.m.,	3 3	} PROF. JACK.
— <i>Honours (Advanced),</i>	11 a.m., Mon., Wed., Fri.,	3 3	
<i>Natural Philosophy,</i>	9 a.m.,	4 4 ¹	} PROF. GRAY.
— <i>Honours, Section A,</i>	1 p.m., Mon.; and 12 noon, Wed., Fri.,	4 4 ^{1 2}	
— <i>Honours, Section B,</i>	12 noon, Monday, Tuesday, Thursday,	4 4 ^{1 2}	
— <i>Honours, Sections A. & B.,</i>		5 5 ³	
<i>Physical Laboratory,</i>	10 a.m. to 4 p.m.,	6 6	}
— <i>(Half Session),</i>		3 3	

¹ Fee for a Second or subsequent Session, £3 3s.

² Fee for either Honours Course along with or after Ordinary Class, £3 3s.

³ Fee for both Sections along with or after the Ordinary Class, £4 4s.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Astronomy, First,</i>	{ 3 p.m., Mon., Wed., and Fri., (see p. 89),	£2 2	} PROF. BECKER.
———— <i>Second,</i>	{ 3 p.m., Tues., Th., and Fri., (see p. 89),	2 2	
———— <i>First and Second in same Session,</i>		4 4 ¹	
<i>Chemistry,</i>	10 a.m.,	4 4 ¹	} PROF. FERGUSON.
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	10 10	
———— (<i>Half Session</i>),		5 5	
<i>Zoology (Elementary),</i>	9 a.m.,	4 4 ¹	} PROF. KERR.
<i>Zoological Laboratory (Elementary),</i>	{ 11 a.m. or 3 p.m.,	3 3	
<i>Zoology, Advanced (Jan.),</i>	9 a.m.,	3 3	
<i>Botany, Advanced,</i>	(see p. 101),	3 3 ²	} PROF. BOWER.
<i>Botanical Laboratory, Advanced (Jan.),</i>	(see p. 101),	3 3	
<i>Botany (in Summer),</i>			
<i>Geology (Lectures and Practical),</i>		5 5	PROF. GREGORY.
<i>History,</i>	10 a.m.,	3 3	} PROF. MEDLEY.
———— <i>Honours,</i>	11 a.m., Mon., Wed., Fri.,	3 3	
<i>Constitutional Law and History,</i>	4.30 p.m.,	4 4 ¹	} DR. W. S. M'KECHNIE.
———— <i>Honours,</i>	1 p.m., Mon., Wed., Fri.,	3 3	
<i>Roman Law,</i>	5.30 p.m.,	4 4 ¹	} MR. J. M. IRVINE.
<i>History of Civil Law (Half Course),</i>	5.30 p.m. (see p. 128),	3 3	

II.—SCIENCE.⁵

THURSDAY, 13TH OCTOBER, 1904.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Mathematics,</i>	9 a.m. or 12 noon,	£3 3	} PROF. JACK.
———— <i>Honours (Intermed.),</i>	10 a.m. or 11 a.m.,	3 3	
———— <i>Honours (Advanced),</i>	11 a.m., Mon., Wed., Fri.,	3 3	
<i>Natural Philosophy,</i>	9 a.m.,	£4 4 ¹	} PROF. GRAY.
<i>Higher Mathematical A.,</i>	{ 1 p.m., Mon.; 12 noon, Wed., Fri.,	4 4 ¹³	
———— <i>B.,</i>	12 noon, Mon., Tu., Th.,	4 4 ¹³	
———— <i>A. and B.,</i>		5 5 ⁴	
<i>Physics for Public Health (Half Session),</i>		2 2	
<i>Physical Laboratory,</i>	10 a.m. to 4 p.m.,	6 6	} DR. JAMES MUIR.
———— (<i>Half Session</i>),		3 3	
<i>Electricity,</i>	12 noon, Wed. and Fri.,	3 3	} PROF. BECKER.
<i>Astronomy, First,</i>	{ 3 p.m., Mon., Wed., and Fri. (see p. 89),	2 2	
———— <i>Second,</i>	{ 3 p.m., Tues., Th., and Fri. (see p. 89),	2 2	
———— <i>First and Second in same Session,</i>		4 4 ¹	} PROF. FERGUSON.
<i>Chemistry,</i>	10 a.m.,	4 4 ¹	
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	10 10	
———— (<i>Half Session</i>),		5 5	

¹ Fee for a second or subsequent session, £3 3s.² See third note on page 60.³ Fee for either Higher Course along with or after the Ordinary Class, £3 3s.⁴ Fee for both Sections along with or after the Ordinary Class, £4 4s.⁵ Any Graduate in Science shall be allowed to enter any Laboratory Course within the curriculum of the degree which he has taken, on payment of half the ordinary fee for such course, provided that if the course be required for further graduation he shall pay the full fee.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Physical Chemistry,</i>	} Mr. F. Soddy.
<i>Radio-activity,</i> . . . . .	. . . . .	. . . . .
<i>Metallurgical Chemistry,</i> . . . . .	. . . . .	. . . . .
<i>Organic Chemistry,</i>	} Dr. W. C. Anderson. Mr. M. A. Parker.
<i>Anatomy, Junior,</i>	1 p.m.,	£4 4 ¹	
<i>Senior,</i>	11 a.m., . . . . .	. 4 4 ¹
<i>Practical Anatomy,</i>	9 a.m. to 4.45 p.m., 3 3 ²	} PROF. CLELAND and Demonstrators.
<i>Physiology,</i>	12 noon, . . . . .	. 4 4 ¹
<i>Practical Physiology (in Summer).</i>			
<i>Advanced (see p. 108),</i> 4 4 ¹	} PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Physiological Laboratory,</i>	10 a.m. to 4 p.m.,	10 10	
<i>(Half Session),</i> . . . . .		. 5 5
<i>Zoology, Elementary,</i>	9 a.m., 4 4 ¹	} PROF. KERR.
<i>Zoological Laboratory, Ele-</i>	11 a.m. or 3 p.m., . . . . .	. 3 3
<i>mentary,</i>			
<i>Zoology, Advanced (Jan.),</i>	9 a.m., 3 3	} PROF. BOWER.
<i>Botany, Advanced,³</i>	(see p. 101), . . . . .	. 3 3
<i>Botanical Laboratory, Ad-</i>	(see p. 101), . . . . .	. 3 3 ³
<i>vanced (Jan.),</i>			} PROF. GREGORY.
<i>Geology and Mineralogy,</i> . . . . .		. 5 5
<i>(Advanced),</i>			
<i>Geology (Eng. or Pub. Health),</i> 3 3	} PROF. GREGORY.
<i>(Agriculture),</i> . . . . .		. 4 4 ¹
<i>Public Health,</i>	12 noon, . . . . .	. 4 4 ¹
<i>Public Health Laboratory,</i>	10 a.m. to 4 p.m.,	12 12	} PROF. GLAISTER. and Assistant.
<i>(Half Session),</i> . . . . .		. 6 6
<i>Engineering, Class I.,</i>	9 a.m., . . . . .	. 2 2
<i>II.,</i>	10 a.m., Mon., Wed., Fri., 2 2	} PROF. BARR, Lec- turers and Demon- strators.
<i>III.,</i>	(not in 1904-5).		
<i>IV.,</i>	9 a.m. daily, ex. Sat., . . . . .	. 4 4 ¹
<i>Engineering Drawing, etc.,</i> {	9 a.m. to 5 p.m. daily,		} PROF. BARR, Lec- turers and Demon- strators.
<i>Engineering Laboratory,</i>	except Sat., . . . . .	. 4 4 ¹
<i>(Second Session),</i>	9 a.m. to 5 p.m.,	10 10	
<i>Engineering Laboratory, Me-</i>		. 5 5	} PROF. BARR, Lec- turers and Demon- strators.
<i>chanical or Electrical,</i>	9 a.m. to 5 p.m., . . . . .	. 3 3
<i>Electrical Engineering, Junior,</i>	8 a.m. Mon., Wed., Fri., . . . . .	. 2 2
<i>Senior,</i>	8 a.m. Tues., Thurs., Sat., 2 2	} Dr. James B. Hen- derson.
<i>Mining, Class I.,</i>	3 p.m., Mon., Wed., . . . . .	. 2 2
<i>II.,</i>	3 p.m., Tues., Thurs., . . . . .	. 2 2
<i>III.,</i>	4 p.m., Thurs., 1 1	} Mr. Charles Latham.
<i>(for Evening Classes, see page 98).</i>			
<i>Mine Management, Class I.,</i>	7.30 p.m., Mon., . . . . .	. 1 1
<i>II.,</i>	7.30 p.m., Wed., 1 1	} PROF. BILES.
<i>Naval Architecture and Mar-</i>	12 noon, Mon., Wed., . . . . .	. 3 3
<i>ine Engineering, Junior,</i> {	and Fri.,		
<i>Senior,</i>	11 a.m., Mon., Tu., & Th., 3 3	} PROF. BILES.
<i>Practical, Junior,</i> {	2 to 5 p.m., Tu., Wed., . . . . .	. 3 3
<i>Senior,</i> {	Th., and Fri., . . . . .	. 3 3
	2 to 5 p.m., Tu., Wed., 3 3	} PROF. BILES.
	Th., and Fri., . . . . .	. 3 3

¹ Fee for a Second or subsequent Session, £3 3s.

² Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

³ Students who have attended Lectures or Laboratory Classes in Botany and paid fees amounting to at least £13 13s., in respect of such classes, may afterwards enrol in any Lecture or Laboratory Class in Botany for £1 1s.

III.—MEDICINE.

THURSDAY, 13TH OCTOBER, 1904.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Zoology, Elementary,</i>	9 a.m.,	£4 4 ¹	} PROF. KERR.
<i>Zoological Laboratory, Elementary,</i>	11 a.m. or 3 p.m.,	3 3	
<i>Chemistry,</i>	10 a.m.,	4 4 ¹	} PROF. FERGUSON.
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	10 10	
(Half Session),		5 5	
<i>Anatomy, Junior,</i>	1 p.m.,	4 4 ¹	} PROF. CLELAND and Demonstrators.
— <i>Senior,</i>	11 a.m.,	4 4 ¹	
<i>Practical Anatomy,</i>	9 a.m. to 4.45 p.m.,	3 3 ²	
<i>Physiology,</i>	12 noon,	4 4 ¹	} PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Physiological Laboratory,</i>	10 a.m. to 4 p.m.,	10 10	
(Half Session),		5 5	
<i>Materia Medica and Therap.,</i>	1 p.m.,	4 4 ¹	PROF. STOCKMAN.
<i>Pathology, Systematic,</i>	3 p.m.,	4 4 ¹	} PROF. MUIR.
— <i>Demonstrations only,</i> . . . . .	. . . . .	1 1	
<i>Surgery,</i>	12 noon,	4 4 ¹	PROF. SIR WM. MACEWEN.
<i>Midwifery,</i>	2 p.m.,	4 4 ¹	PROF. M. CAMERON.
<i>Practice of Medicine,</i>	11 a.m.,	4 4 ¹	PROF. ANDERSON.
<i>Clinical Medicine,</i>	9 a.m.,	3 3	} PROF. GEMMELL and PROF. ANDERSON. PROF. SIR H. C. CAMERON and PROF. SIR WM. MACEWEN.
<i>Clinical Surgery,</i>	9 a.m.,	3 3	
<i>Public Health Laboratory,</i>	(see p. 112),	12 12	
(Half Session),		6 6	} PROFESSOR GLAISTER and Assistant.
<i>Ear,</i>	4 p.m., Mon. (see p. 120),	1 1	
<i>Throat and Nose,</i> { 4 p.m., Th. (University), }			} Dr. Thomas Barr.
{ 4 p.m., Tues. or Fri. (Western Infirmary), }		1 1	

IV.—LAW.

THURSDAY, 13TH OCTOBER, 1904.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Scots Law,</i>	8 a.m.,	£4 4 ¹	PROF. MOODY STUART.
<i>Civil Law,</i>	5.30 p.m.,	4 4 ¹	Mr. J. M. Irvine.
<i>Conveyancing,</i>	8 a.m.,	4 4 ¹	PROF. MOIR.
<i>Constitutional Law and History,</i>	4.30 p.m.,	4 4 ¹	} Dr. W. S. M'Kechnie.
(Half Course),		3 3	
<i>Mercantile Law,</i>	5.30 p.m.,	4 4 ¹	} Mr. William Shaw.
(Half Course),		3 3	
<i>Public International Law,</i>	5.30 p.m., Mon., Th.,	3 3	
<i>Jurisprudence, General or Comparative,</i>	4.30 p.m., Mon., Th.,	3 3	— — —
<i>International Private Law</i> (in Summer), . . . . .	. . . . .	
<i>Political Economy,</i>	2 p.m.,	3 3	PROF. SMART.
<i>Forensic Medicine,</i>	9 a.m. (Jan.),	4 4 ¹	PROF. GLAISTER

¹ Fee for a Second or subsequent Session, £3 3s.² Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

V.—THEOLOGY.

THURSDAY, 13TH OCTOBER, 1904.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Divinity, Senior,</i>	11 a.m.,	£3 3	} PROF. REID.
<i>Junior,</i>	12 noon,	3 3	
<i>Hebrew, Junior,</i>	10 a.m.,	3 3	} PROF. ROBERTSON
<i>Senior, 9 a.m. daily, and 12 noon, Tu., Wed., Th.,</i>	(see p. 138),	3 3	
<i>Arabic or Syriac,</i>	(see p. 138),	2 2 ¹	} and Mr. T. H. Weir.
<i>Ecclesiastical History, Junior,</i>	11 a.m.,	3 3	
<i>Senior, 12 noon,</i>		3 3	} PROF. COOPER.
<i>Biblical Criticism,</i>	10 a.m.,	3 3	
<i>New Testament Greek,</i>	9 a.m., Mon., Wed., Fri.,	2 2	} PROF. STEWART.

SUMMER SESSION 1905.

I.—ARTS.

WEDNESDAY, 19TH APRIL, 1905.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Physical Laboratory,</i>	10 a.m. to 4 p.m.,	£4 4	PROF. GRAY.
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	5 5	PROF. FERGUSON.
<i>Botany,</i>	8 a.m. (see p. 101),	4 4 ²	} PROF. BOWER.
<i>Botanical Laboratory,</i>	9 a.m. to 4 p.m.,	3 3 ³	
<i>Latin,</i>	10 a.m.,	2 2	Mr. R. G. Nisbet.
<i>Greek,</i>	8 a.m.,	2 2	Mr. W. Rennie.
<i>Mathematics,</i>	9 a.m.,	2 2	{ Mr. D. K. Picken. Mr. R. J. T. Bell.
<i>Hebrew,</i>	9 a.m.,	2 2	
<i>Arabic,</i>	(see p. 138),	2 2	Mr. T. H. Weir.
<i>Political Philosophy,</i>		2 2	Dr. R. A. Duff.

II.—SCIENCE.⁵

WEDNESDAY, 19TH APRIL, 1905.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Zoology, Advanced,</i>	9 a.m.,	£3 3	PROF. KERR.
<i>Botany,</i>	8 a.m. (see p. 98),	4 4 ²	} PROF. BOWER.
<i>Botanical Laboratory,</i>	9 a.m. to 4 p.m.,	3 3 ³	
<i>Physical Laboratory,</i>	10 a.m. to 4 p.m.,	4 4	} PROF. GRAY.
<i>for King's Students,</i>		3 3	
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	5 5	} PROF. FERGUSON.
<i>Chemistry, Higher,</i>		4 4 ²	
<i>Physical Chemistry,</i>			Mr. F. Soddy.
<i>Metallurgical Chemistry,</i>			Dr. W. C. Anderson.
<i>Organic Chemistry,</i>			Mr. M. A. Parker.
<i>Practical Anatomy,</i>	8 a.m. to 3 p.m.,	2 2 ⁴	{ PROF. CLELAND and Demonstrators.
<i>Practical Physiology,</i>	12 noon,	3 3	
<i>Physiological Laboratory,</i>	10 a.m. to 4 p.m.,	5 5	} PROF. M'KENDRICK and Muirhead Demonstrator.

¹ For students who are attending or have attended, the Hebrew Class, the Fee is £1 1s.² Fee for a Second or subsequent Session, £3 3s.³ See third note on page 60.⁴ Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.⁵ See fifth note on page 59.

III.—MEDICINE.

WEDNESDAY, 19TH APRIL, 1905.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Physics,</i>	11 a.m.,	£3 3	Mr. G. W. Walker.
<i>Botany,</i>	8 a.m. (see p. 101),	4 4 ¹	} PROF. BOWER.
<i>Botanical Laboratory,</i>	9 a.m. to 4 p.m.,	3 3 ²	
<i>Clinical Medicine,</i>	9 a.m.,	2 2	} PROF. GEMMELL and PROF. ANDERSON.
<i>Clinical Surgery,</i>	9 a.m.,	2 2	
<i>Practical Chemistry,</i> ³	9 to 11 a.m.,	3 3	} PROF. SIR H. C. CAMERON and PROF. SIR WILLIAM MACEWEN.
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	5 5	
<i>Practical Anatomy,</i>	8 a.m. to 3 p.m.,	2 2 ⁴	} PROF. FERGUSON.
<i>Embryology,</i>	11 a.m. (see p. 107),	2 2	
<i>Embryological Labor- atory,</i>	9 a.m. to 3 p.m. (see p. 107),	3 3	} PROF. CLELAND and Demonstrators.
<i>Practical Anatomy and Embryology, if taken together,</i> . . . . .	. . . . .	3 3	
<i>Practical Pharmacy,</i>	12 noon,	3 3	} PROF. STOCKMAN.
<i>Practical Physiology,</i> ⁵ 12 noon (see p. 108), . . . . .	. . . . .	3 3	
<i>Physiological Laboratory,</i>	10 a.m. to 4 p.m.,	5 5	} PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Medical Jurisprudence and Public Health,</i>	11 a.m.,	4 4 ¹	
<i>Public Health Laboratory,</i> (see p. 112). . . . .	. . . . .	6 6	} PROF. GLAISTER.
<i>Practical Pathology,</i> ⁵ 1 to 3 p.m. (see p. 111), . . . . .	. . . . .	3 3	
<i>Operative Surgery,</i> { 12 noon, with practical work at other hours as may be arranged, . . . . .	. . . . .	3 3	} PROF. SIR WM. MACEWEN.
<i>Diseases of Women,</i>	2 p.m., Tu., Th., Fri.,	2 2	
<i>Insanity,</i>	{ 12 noon, Wed. (University), 10 a.m. Sat. (Gartnavel),	2 2	} PROF. M. CAMERON.
<i>Ear,</i>	4 p.m., Mon. (see p. 120),	1 1	
<i>Throat and Nose,</i> { 4 p.m., Th. (University), (Western Infirmary), . . . . .	. . . . .	1 1	} Dr. Yellowlees.
	
	. . . . .	. . . . .	} Dr. Thomas Barr.
	
	. . . . .	. . . . .	} J. Walker Downie, M.B.
	

IV.—LAW.

WEDNESDAY, 19TH APRIL, 1905.

<i>Class.</i>	<i>Hour.</i>	<i>Class Fees.</i>	
<i>International Private Law,</i> 5.30 p.m.,	£3 3	— — —

¹ Fee for a Second or subsequent Session, £3 3s.² See third note on page 60.³ Instead of this Practical Course in Summer, Medical Students may take a three months' course of Laboratory Instruction in Winter.⁴ Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.⁵ After first Lecture, the Class will meet in divisions.

In addition to the University Courses, the following Hospitals and Dispensaries afford ample means for Practical Instruction in the various departments of Medicine and Surgery :—

WESTERN INFIRMARY.—This Hospital contains 416 beds for medical and surgical patients, including Wards for Skin Diseases, and two for diseases peculiar to females. *Physicians*—Prof. T. McCall Anderson, M.D.; James Finlayson, M.D., LL.D.; Prof. Samson Gemmell, M.D.; Prof. Ralph Stockman, M.D. *Honorary Consulting Physicians*—Gavin P. Tennent, M.D.; Sir William T. Gairdner, K.C.B., M.D., LL.D., F.R.S. *Physicians for Diseases of Women*—W. L. Reid, M.D.; Professor Murdoch Cameron, M.D. *Assistant Physicians*—John Alexander, M.D.; William G. Dun, M.D.; R. S. Thomson, M.D.; R. B. Ness, M.B. *Surgeons*—Professor Sir Hector C. Cameron, M.D.; Professor Sir William Macewen, M.D., LL.D., F.R.S.; J. C. Renton, M.D.; George T. Beatson, M.D., C.B.; T. K. Dalziel, M.B. *Honorary Consulting Surgeons*—George Buchanan, M.D., LL.D.; Alexander Patterson, M.D. *Honorary Consulting Ophthalmic Surgeon*—T. Reid, M.D., LL.D. *Assistant Surgeons*—James H. Nicoll, M.B.; Duncan Macartney, M.D.; Robert Kennedy, M.A., D.Sc., M.D.; Alfred A. Young, M.A., M.B.; George Burnside Buchanan, B.A. (Cantab.), M.B., C.M. *Dispensary Physicians*—William R. Jack, B.Sc., M.D.; Henry E. Jones, M.B.; Hugh Galt, M.B.; James Carslaw, M.A., M.B., C.M.; John M. Cowan, B.A., M.D., B.C.; John S. McKendrick, M.D. *Extra Dispensary Physicians*—Robert Fullarton, M.A., M.B., Ch.B.; James C. McClure, M.B., C.M. *Dispensary Physicians for Diseases of Women*—Robert Kirk, M.D.; J. M. Munro Kerr, M.B.; E. H. Lawrence Oliphant, M.D. *Dispensary Surgeons*—John Morton, M.B.; G. H. Edington, M.D.; Farquhar Macrae, M.B., C.M. *Extra Dispensary Surgeons*—Alexander MacLennan, M.B., C.M.; Archibald Young, B.Sc., M.B., C.M. *Dispensary Surgeon for Diseases of the Ear*—Thomas Barr, M.D. *Dispensary Surgeon for Diseases of the Throat and Nose*—J. Walker Downie, M.B. *Surgeon Dentist*—W. D. Woodburn, L.D.S. *Pathologist*—Professor Robert Muir, M.D. *Assistant Pathologist*—A. R. Ferguson, M.D. *Vaccinator*—John W. Nicol, M.B. *Medical Superintendent*—Donald J. Mackintosh, M.B., M.V.O. *Lady Super-*

intendent—Miss E. C. Shannon. *Secretary and Treasurer*—Henry Johnston, 125 Buchanan Street. The hour of visit is 9 A.M. The Dispensary for Out-Patients is open daily at 2 P.M. Vaccination—Mondays and Thursdays at 12 noon. The station is recognized by the Local Government Board. Fee, £1 1s. It is recommended that when practicable students should attend the vaccination course during the winter session. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. No student shall be permitted to attend the Infirmary without a Ticket duly signed by the Superintendent.

2. The Fees payable shall be as follows:—

(a) Every Student shall pay a fee of £10 10s. for Hospital attendance, and this shall be kept quite separate from the Fees for Clinical Instruction.

(b) Every Student shall pay £3 3s. for each Winter Session and £2 2s. for each Summer Session of Clinical Instruction.

(c) Students who have completed their Clinical Course elsewhere shall be permitted to enter for a six months' course of the *Hospital only*, on payment of a fee of £2 2s.

(d) There shall be two Courses of Clinical instruction, the first extending from the beginning of November to April, and the second from the beginning of May to July.

(e) At the beginning of each Course the Student shall give intimation to the Superintendent of the Clinical Teacher whose course he wishes to attend, by filling up a form which will be supplied on application to the Superintendent.

3. The fees shall be paid to the Superintendent, who shall give each Student a Ticket of Admission to the Lectures of the Physicians or Surgeons he wishes to attend. He shall also hand to each of the Clinical Lecturers a list of the Students who have taken out Tickets for their respective Courses.

OUT-DOOR VISITATION.—Senior Students who have passed their Third Professional Examination are permitted to visit the sick poor in the Anderston district, under the supervision of certain Professors of the University and assistants.

GLASGOW ROYAL INFIRMARY.—Number of beds, 587. Special wards are set aside for the treatment of Venereal Diseases, Diseases of Women, of the Throat and Nose, and special beds for Diseases of the Ear. *Physicians*—David Caldwell M'Vail, M.B.; George Stevenson Middleton, M.A., M.D.; John Lindsay Steven, M.D.; Thomas Kirkpatrick Monro, M.A., M.D.; James Watson Allan, M.B. *Surgeons*—Henry E. Clark, C.M.G., L.R.C.P., etc.; David N. Knox, M.A., M.B.; John Barlow, M.D.; James Alexander Adams, M.D.; David Newman, M.D.; Quintin M'Lennan, M.B.; James Hogarth Pringle, M.B. *Assistant Physicians*—Alexander Scott, M.D.; Walter K. Hunter, D.Sc., M.D.; John B. MacKenzie Anderson, M.A., M.B.; John W. Findlay, M.D.; David M'Corrie, L.R.C.P.; Hugh M'Laren, M.B. *Extra Assistant Physicians*—Norman M'Nair, B.Sc., M.D.; John Henderson, M.D.; Campbell S. Marshall, M.B. *Assistant Surgeons*—P. M'Kellar Dewar, L.R.C.P., etc.; Henry Rutherford, M.A., M.B.; A. N. MacGregor, M.D.; James Luke, M.B.; Peter Paterson, M.B.; John Patrick, M.B. *Extra Assistant Surgeons*—A. G. Faulds, M.B.; John A. C. M'Ewen, B.Sc., M.B.; Thomas Kay, M.B. *Diseases of Women*—J. K. Kelly, M.D. *Consulting Surgeon for Diseases of the Eye*—A. Maitland Ramsay, M.D. *Diseases of the Throat and Nose*—John Macintyre, M.B. *Pathologist and Curator of Museum*—Charles Workman, M.D. *Assistant Pathologist*—Hugh M'Laren, M.B. The hour of visit is 9 A.M. The hours at the dispensary for out-patients are as follows:—*Diseases of the Ear*—James Kerr Love, M.D. 3.30 P.M., Tuesday and Friday. *Diseases of the Throat and Nose*—R. Fullerton, M.D. 11 A.M., Tuesday and Friday. *Diseases of the Eye*—J. Rowan, M.B.; and H. W. Thomson, M.D. 12 Noon, Monday, Wednesday, and Friday. *Diseases of the Skin*—Alexander Morton, M.A., M.D. 11 A.M., Monday, Wednesday, and Friday. *Gynaecologist*—G. Balfour Marshall, M.D. 11.30 A.M., Tuesday, Thursday, and Saturday. *Diseases of the Teeth*—William Howard Gray, L.D.S. 3.30 P.M., Monday, Wednesday, and Saturday. *Vaccination*—Hugh H. Borland, M.B., D.P.H., 12 Noon, Monday and Thursday. The station is recognised by the Local Government Board. The Electric Pavilion contains all the most recent apparatus for the diagnosis and treatment of disease by Electricity. *Consulting Electrician*—John Macintyre, M.B.

Medical Electrician—James R. Riddell, L.R.C.P., etc. *Assistant Medical Electrician*—Samuel Capie, M.B. *Bacteriologist*—David M'Crorie, L.R.C.P. Fees, which include Hospital Practice and the Clinical Lectures, for one year £10 10s., six months £6 6s., three months £4 4s. The total fee is £21. Vaccination £1 1s. Two-thirds of these fees will be paid by the Carnegie Trust for students who fulfil the conditions of the Trust. *Superintendent*—J. Maxtone Thom, M.B., D.P.H. *Matron*—Mrs. Strong. *Secretary*—Henry Lamond, 93 West Regent Street.

EYE INFIRMARY, 174 Berkeley Street and 80 Charlotte Street.—Hour of Visit, 1 P.M. daily. Fee for six months, £1 1s.; for twelve months, £2 2s.

OPHTHALMIC INSTITUTION, 126 West Regent Street.—Hour of Visit, 2 P.M. Fee for a qualifying course, £1 1s.

INSANITY.—During the Summer Session Dr. Yellowlees gives in the University a Course of Lectures on Insanity at 12 noon on Wednesdays, and Clinical Instruction at the Glasgow Royal Asylum, Gartnavel, at 10 A.M. on Saturdays. Fee for the combined Course, £2 2s.

At Gartloch Asylum, Gartcosh, Senior Medical Students may obtain appointments as Resident Clinical Clerks. These appointments are made in April and October for six months. Board and lodging with railway fare to and from Glasgow are allowed, and Classes can be attended in Glasgow in the earlier part of the day. Application should be made to the Medical Superintendent, W. A. Parker, M.B., considerably in advance.

Clinical Instruction in Fevers is given at the Ruchill Hospital and the Belvidere Hospital. Fee for a course extending over ten weeks, once a week, £1 1s. Apply to Mr. James D. Borthwick, 285 George Street, Glasgow.

There are also Hospitals for Diseases of the Skin and Ear.

FACULTIES IN THE UNIVERSITY.

The whole classes of the University are arranged in five Faculties—Arts, Science, Medicine, Law, and Divinity.

I.—FACULTY OF ARTS.

The Faculty of Arts comprehends four Departments of study, viz.:—A. *Language and Literature*, embracing the classes of Humanity, Greek, English, French, German, Italian, Hebrew and Semitic Languages; B. *Mental Philosophy*, comprising Logic and Metaphysics, Moral Philosophy, Political Economy, Education, Philosophy of Law; C. *Science*, including Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany, Geology; D. *History and Law*, containing History, Constitutional Law and History, Roman Law.

A. LANGUAGE AND LITERATURE.

I. HUMANITY.

The original foundation of this Professorship is not extant; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

Professors from the year 1706.

1706. Andrew Rosse.	1773. Wm. Richardson, M.A.
1735. George Rosse.	1815. Josiah Walker, M.A.
1754. George Muirhead.	1831. William Ramsay, M.A.
1863. GEORGE G. RAMSAY, M.A., LL.D., Litt.D.	

The Humanity Class consists of two classes—the *Senior*, taught in two divisions, and the *Honours Class*, which latter class all members of the ordinary Senior Class have the option of attending. Students not requiring a Public Certificate for the Degree or other purpose may attend any class as Private Students. Private Students are students who attend the class without taking part in the class work.

In all the classes the students prepare certain work prescribed, and are examined orally every day. In the Honours Class the business is conducted partially by oral examination, but mainly by Lectures and Prelections delivered by the Professor. *Unseens* are set from time to time, and Latin Verse Composition is taught to those that desire it.

Senior Class.

The SENIOR CLASS is taught in two divisions, one meeting daily at 8 A.M. and the other at 9 A.M. The divisions will be arranged, so far as possible, to suit the circumstances of students. All students attending the Senior Class have the option also of attending the Honours Class from 1 to 2 P.M. The subjects of study in the class at the morning hour are:—The works of Horace—Propertius—Virgil—Cicero—Sallust—Livy—Tacitus—Latin Prose Composition—Latin Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session. Latin Prose is taught in three sections, which meet at 1 P.M. on Wednesdays.

Honours Class, 1 p.m.

In this class advanced work is read. Special regard is paid to the needs of students preparing for the Honours Degree in Classics, as well as for Classical Scholarships, the Home and Indian Civil Service Examinations, etc.

One subject is usually read and lectured upon on Mondays and Fridays; another on Tuesdays and Thursdays; and Latin Prose is taught to the Honours Section at 11 A.M. on Thursdays. Students are allowed to attend as Private Students, *i.e.* as listeners only, without doing any of the work of the class; but in that case they do not receive tickets qualifying for the Degree.

Honour Students, wishing to do Latin Prose for the Degree or other purposes, may attend for Latin Prose only.

A course of five sessions may embrace Lectures and Prelections on Plautus—Terence—Lucretius—Catullus—Propertius—Virgil—Persius—Statius—Juvenal—Martial—Tacitus—Quintilian, Cicero's Oratorical and Philosophical works, etc.

The subjects read in the Session 1904-5 will be as follows:—

1. HONOURS CLASS, AT 1 P.M.—Juvenal; Persius; Tacitus, *Annals* XIII.; Lucretius, Books III. and IV.; Virgil, *Æn.* IV. and VI.

2. SENIOR CLASS, AT 8 or 9 A.M.—Horace, *Odes*, at 8 and 9 A.M.; Livy, Books V. and VI. (Cluer and Matheson) at 8 and 9 A.M.; Horace, *Satires* II., at 8 and 9 A.M.; Ramsay's Latin Prose Composition, Vols. I. and II., Antiquities, and Prosody; Howe and Leigh's *History of Rome*.

II. GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

Professors from the year 1704.

1704. A. Dunlop, LL.D.	1838. Edmund L. Lushington, LL.D.
1746. James Moor, LL.D.	1875. R. C. Jebb, D.C.L., Litt.D.,
1774. John Young, M.A.	LL.D.
1821. Sir Daniel K. Sand-	1889. G. G. A. Murray, M.A., LL.D.
ford, M.A.	1899. JOHN S. PHILLIMORE, M.A.

The Greek Class consists of two divisions, the Ordinary and the Honours. Students not requiring a Public Certificate may attend as Private Students, *i.e.* without doing the work of the class.

All students should possess the following books:—*Ancient Atlas*; *Greek Lexicon*, Liddell & Scott (large or intermediate edition—the small edition is not sufficient); some History or Primer of Greek Literature; *Greek Grammar*, Goodwin.

Senior students are recommended to get Gow's *Companion to the School Classics*, and Seyffert's *Dictionary of Classical Antiquities*, *etc.*, translated by Nettleship and Sandys; or, in place of Seyffert, Smith's two small volumes, the *Classical Dictionary* and the *Dictionary of Antiquities*.

ORDINARY CLASS.

This is the ordinary qualifying class for graduation; all members of it must have passed the Preliminary Examination in Greek on the higher standard, or an equivalent examination.

All students requiring a certificate of attendance must duly perform the work of the class; but those who do not require a certificate, or those who have not passed the Preliminary Examination, may attend as Private Students, *i.e.* without doing the work.

The class meets at 8 A.M. every week-day except Saturday.

The class hour is chiefly occupied by the Professor's lectures, but the class is liable to be examined orally or on paper every day. The work done includes the reading of Greek Authors; Greek Prose Composition; Written Exercises in translation; Greek History, Language, Antiquities, and Literature.

Women students have the option of attending this class.

HONOURS CLASS.

The Honours Class meets at 12 noon every week-day except Saturday. Members of the Ordinary Class are at liberty to attend; they are not recommended to attempt the work of the class except in so far as it suits their convenience. The Class consists of two divisions, viz.: First year's students (*i.e.* those who are seeking the certificate with a view to graduate with Honours, and doing the full work of the class), and Private students who have already been through the class. These may follow the class work, but arrangements will be made for more advanced teaching for them, either individually or in small voluntary groups.

The work is similar to that done in the Ordinary Class, but more advanced, greater attention being given to the History of Literature, Philology, Criticism, and Philosophy.

Subjects for Session 1904-5.

ORDINARY CLASS.—Sophocles, *Philoctetes* (Jebb); Herodotus, vii.; Lucian, vol. ii. of the Teubner edition, read in selections. Greek Grammar and Literature; Written Translations and Prose Composition.

HONOURS CLASS.—For the lectures in this class the student should have read the books beforehand.

Subjects: Homer, *Odyssey*, with special regard to V. Bérard's *Les Phéniciens et l'Odysée* (Armand Colin, Paris 1903). Demosthenes, *Against Aristocrates*, *Conon*, *Eubulides* (either Blass' Teubner text or the Weidmann ed. of 1891). Translations, Essays, Prose Composition.

A voluntary class for Greek Verse will be formed.

Written Translations and Prose Composition.

Students will be given Private Hours for Prose.

A Private reading class will be arranged for both First and Second year (voluntary).

CLASSICAL ARCHAEOLOGY.

This Lectureship was instituted by the University in 1903.

Lecturer—GEORGE MACDONALD, M.A.

A course of lectures is given during the winter session on days and at hours arranged to suit the convenience of those who may wish to attend. The needs of students reading for Honours in Classics are specially kept in view, but the lectures can be intelligently followed without a knowledge of Latin or

Greek. The subject for 1904-5 will be the "The History and Art of Sicily and Magna Graecia from the Athenian Expedition to the Roman Conquest."

III. ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861, and is in the gift of the Crown.

Professors.

1862. John Nichol, LL.D.

1889. Andrew Cecil Bradley, M.A., LL.D.

1900. W. A. RALEIGH, M.A.

N.B.—*Students are strongly advised to take the English Literature Class, as has hitherto been the custom, in the later part of their Course. Those who, for special reasons, desire to take it early should consult the Professor before taking out their class-tickets.*

ORDINARY CLASS.—During session 1904-5 the class will meet daily, except on Saturday, at 11 A.M.

The subjects to be studied are the following :—

I. On Monday, Wednesday, and Friday, throughout the session, a continuous course will be given on the History of English Literature of the Romantic Revival (1784-1832). The works prescribed for study are :—

The poetical works of Wordsworth, Coleridge, Shelley, Keats, Scott, Byron.

II. On Tuesdays and Thursdays the following subjects will be studied :—

(1) The history of the English Language.

(2) English Composition. Text-books : *Composition Primer* and *Questions and Exercises on English Composition*, Nichol and M'Cormick.

(3) Shakespeare, *As You Like It*, *Hamlet* ; Pope, *The Rape of the Lock* ; Lamb, *Essays of Elia* ; Hazlitt, *Essays on poets of his own time*.

Students who have already taken the Ordinary Class are permitted to attend the Lectures on Monday, Wednesday, and Friday, for a Fee of £2 2s. Such attendance cannot be reckoned towards graduation.

HONOURS CLASS.—The class meets daily at 12 noon ; on

Monday, Wednesday, and Friday for the study of special authors and of selected subjects connected with the history of English Literature (1350-1900); on Tuesday and Thursday for the study of Anglo-Saxon and Middle English. The special authors to be studied during session 1904-5 are Chaucer and Shakespeare.

BRITISH HISTORY CLASS FOR HONOURS IN ENGLISH. — See p. 86.

DEGREE EXAMINATIONS.—The subjects for these in October, 1904, and April and October, 1905, will be found on p. 206. Students are advised to present themselves for their examination in the April or October immediately following their attendance of the Ordinary Class, as the subjects studied in class will be changed from year to year.

IV. FRENCH LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University in 1895.

Lecturers.

1895. Alfred Mercier, L. ès L.

1898. CHARLES MARTIN, M.A. (Paris), O.A.

I. ORDINARY CLASS.—The French Ordinary Class meets daily at 11 A.M. in the Conveyancing Class-room, and the course, which extends to one hundred meetings, qualifies for graduation in Arts. The class is conducted in French, but will be partly conducted in English, during the first weeks of the session, if found necessary.

The work of the class will comprise the following subjects:

A. *Literature*.—On Mondays and Wednesdays a course of lectures will be given on Dramatic French Literature in the Seventeenth Century.

Special study of the following works: Corneille, *Le Cid*, *Polyeucte*; Racine, *Andromaque*, *Iphigénie*; Molière, *Tartuffe*.

On Thursdays (after the Christmas vacation) a course of lectures on the general history of Modern French Literature.

B. *Language*.—On Tuesdays translations into and from French and French essays will be corrected. Lectures on French Composition.

On Fridays. History of the French Language; Historical Grammar (Text-book: A. Darmesteter, *Grammaire historique de la Langue française—Syntaxe*).

On Thursdays (before the Christmas vacation)—1. A course of lectures on French Phonetics. 2. A course of lectures on the teaching of French.

A tutorial class meets as often as convenient to the students for the study of pronunciation and the correction of exercises.

A class library, well provided with books of reference, is open to the students from 9 A.M. till 5 P.M.

Students who take French for purposes of graduation must attend both classes; but students who do not intend to graduate may take the Language class alone or the Literature class alone. The fee for one class alone is £2 2s.

II. HONOURS CLASS.—This Class will meet on Tuesdays and Fridays at noon, and on another day fixed to suit the convenience of the students.

A. Evolution des principaux genres littéraires au xix^e siècle (suite). Poésie, Drame, Roman, de 1830 à 1850 environ.

B. Lecture avec commentaires philologiques et littéraires des ouvrages suivants: (1) Gaston Paris, *Extraits de la Chanson de Roland*; (2) *Extraits des Chroniqueurs français* (Edition Gaston Paris—Hachette); (3) Pelissier, *Extraits des Poètes français du xvi^e siècle*.

C. Exposé de quelques questions de grammaire historique (Text-Book: A. Darmesteter, *Grammaire historique de la Langue française*).

D. Travaux pratiques: leçons faites par les Etudiants, discussion de travaux écrits.

Traductions et Compositions françaises.

V. GERMAN LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University in 1899.

Lecturers.

1899. Alexander Tille, Ph.D.

1900. GEORGE P. THISTLETHWAITE, B.A., Ph.D.

I. ORDINARY CLASS.—The German Ordinary Class meets daily at 10 a.m. in the Conveyancing Class Room, and the course, which extends to one hundred meetings, qualifies for graduation in Arts. Students who do not intend to graduate may take either

the Literature class or the Language class alone. Part of the work will be done in German, as soon as the students are sufficiently advanced for it. The fee for one class is £2 2s.

A. *Language*.—Mondays, Wednesdays, and Thursdays. 1. The History of the Language and Higher Modern German Grammar. 2. Translation of selected parts of the following works: Schiller, *Maria Stuart* (Pitt Press edition); Lessing, *Minna von Barnhelm*; Kleist, *Michael Kohlhaas*; Freytag, *Der Staat Friedrich's des Grossen*; Goethe, *Egmont* (Clarendon Press edition). 3. German Prose: Translation at sight into German. 4. Essays on class work. In addition to the above, opportunities will be given for speaking German, but not in the regular lecture hours. Text-books: Brandt, *Grammar of the German Language*; Buchheim, *Materials for German Prose Composition* (large edition).

B. *Literature*.—Tuesdays and Fridays. The chief Classical Period. Text-books: Kluge, *Geschichte der deutschen National-Litteratur*.

Students who intend to take the Honours Course in German, or who propose to go to Germany during the long vacation, should consult the Lecturer before doing so.

II. HONOURS CLASS.—This Class will meet on Mondays, Thursdays, and alternate Wednesdays at 12.15 p.m.

1. *Literature*: The Romantic School. 2. Historical Grammar and Middle High German Grammar. 3. Interpretation of parts of Middle High German Texts: Hartmann von Aue, *Der arme Heinrich*; Walther von der Vogelweide. 4. Interpretation of selections from 16th century Texts. 5. Essays on class work. Text-books: Kluge, *Geschichte der deutschen National-Litteratur*; Scherer, *History of German Literature*; Paul, *Mittelhochdeutsche Grammatik*; Wright, *Middle High German Grammar*; Pfeiffer, *Walther von der Vogelweide*; Sahr, *Hans Sachs und Johann Fischart*; Behagel, *Historical Grammar of the German Language*.

As the subjects for Graduation may change from year to year, Students are strongly advised to take the examination in the April or October immediately following their attendance of the Class Lectures.

VI. ITALIAN LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University Court in 1902.

Lecturer—SIGNOR FERNANDO AGNOLETTI, D.Litt.

An Italian Elementary Class will meet twice weekly at an hour to suit the convenience of Students. It will deal chiefly with Italian Grammar and exercises on Language, and will close with a short sketch of Italian Literature. Modern Italian prose and easy poetry will be read. Text-books: Collodi, *Avventure di Pinocchio* (Firenze).

ORDINARY CLASS. This Class will meet daily at an hour to be fixed in agreement with the students.

Language. Short epitome of Italian Grammar. Translations from and into Italian. Reading of modern prose. Prose compositions. Italian History from the age of Dante. Oral exercises. Outline of the history of the Language.

Literature. C'era una volta.—(a) Religious narrative prose. *I Fioretti di S. Francesco*—The early Italian novel—Boccaccio.—(b) Narrative poetry. Chivalry and legends in Italy—L. Pulci. Ariosto.—(c) Modern fiction. Manzoni. Contemporary novels.

Text-books: for Language: Leopardi, Prose (Barbèra, Diamante, Firenze); Goldoni, *Il Ventaglio*, a cura di Minghini (Sansoni, Firenze). For Literature: *I Fioretti di S. Francesco*, a cura di L. Passerini (Sansoni, Firenze); A. Manetti, *Operette*, a cura di G. Milanese (Le Monnier, Firenze); Ariosto, *Orlando Furioso* (Piccola Biblioteca Sansoni, Firenze); Manzoni, *I Promessi Sposi*, a cura di Petrocchi (Sansoni, Firenze).

HONOURS CLASS.—This class will meet on alternate Mondays, Tuesdays, and Thursdays, at an hour to be fixed in agreement with the students.

(a) Dante: Reading of *Paradiso*. Text-book: *Divina Commedia* (Casini, Sansoni, Firenze). (b) Machiavelli: His age, his life, his thought. History in Italy. Literature of the Courts in the XVI. century. Text-Books: *Il Principe e altri scritti* (Diamante, Barbèra, Firenze). *Il Cortegiano* (Cian, Sansoni, Firenze). (c) Poets and writers of the XIX. century: Foscolo, Leopardi, Carducci. Text-books: Foscolo, *Poesie* (Piccola Biblioteca Sansoni (brochure) Firenze). Carducci, *Confessioni e Battaglie* (Zanichelli, Bologna).

The classes are open to both men and women.

VII. HEBREW.

(See under Faculty of Theology, p. 137.)

VIII. ARABIC.

(See under Faculty of Theology, p. 138.)

B. MENTAL PHILOSOPHY.

I. LOGIC AND RHETORIC.

This Professorship is one of those founded in the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

Professors from the year 1727.

1727. John Loudon.	1827 ² . Robert Buchanan, LL.D.
1751. Adam Smith, LL.D.	1864. John Veitch, LL.D.
1752. James Clow.	1895. Robert Adamson, LL.D.
1787 ¹ . George Jardine, M.A.	1902. ROBERT LATTA, D.Phil.

The Logic Class meets daily, on five days of the week, from 9 to 10 A.M.

The Course of Lectures includes the following subjects:—

I. LOGIC.—The Principles of Deductive and Inductive Logic. Special reference will be made to Mill's *Logic*, Books I., II., and III.

II. PSYCHOLOGY.—A general account of the composition and development of Mind, with a more detailed consideration of the process of knowledge.

III. METAPHYSICS.—An introduction, historical and critical, to the general questions of Modern Philosophy. The historical reference will concern mainly the doctrines of Descartes, Locke, Berkeley, and Hume.

Students before entering the class are recommended to read some elementary work on Formal Logic, such as Jevons' *Elementary Lessons in Logic*, Fowler's *Deductive Logic*, or Mellone's *Introductory Text-book of Logic*, and also some elementary book on Psychology, such as Stout's *Groundwork of Psychology*.

An advanced class is held in which lectures are given on some of the subjects prescribed for Honours in Mental Philo-

¹ Mr. Jardine was assistant and successor to Mr. Clow from 2nd June, 1771.

² Mr. Buchanan was assistant and successor to Mr. Jardine from 1st October, 1824.

sophy. During next session this class will meet at 1 P.M., on three or four days weekly.

Students before entering the honours class are recommended to read (1) the sections on pre-Kantian philosophy in any history of Modern Philosophy, *e.g.* Höffding, Falckenberg, Erdmann, or Adamson, and (2) Some history of Greek Philosophy (period before Plato), as Zeller, Burnet, Erdmann, or Gomperz. Janet and Séaille's *History of the Problems of Philosophy* should also be consulted.

II. MORAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

Professors from the year 1727.

1727. Gerschom Carmichael.	1796 ¹ . Archd. Arthur, M.A.
1730. F. Hutcheson, LL.D.	1797. James Mylne, M.A.
1746. Thomas Craigie.	1839. William Fleming, D.D.
1752. Adam Smith, LL.D.	1866. Edward Caird, D.C.L.,
1764. Thomas Reid, D.D.	LL.D.
1894. HENRY JONES, M.A., LL.D.	

N.B.—No student, who is proceeding to a degree, shall be allowed to attend the class of Moral Philosophy during the first session of his or her course, except by the express permission of the Professor.

The Moral Philosophy Class meets at 8 A.M. on five days of the week.

In this class Moral Philosophy is treated both historically and systematically. In connection with the systematic part of the course lectures are given on the metaphysical and psychological implications of Morals, and in connection with the historical part the development of Morals is traced, and an account given of some of the main ethical theories of ancient and modern times.

The work of the class will further comprise the study of (1) Janet and Séaille's *History of the Problems of Philosophy*, Vol. II., Part II.; (2) Plato's *Republic* (translation by Davies and Vaughan), and students are recommended to read in conjunction therewith Bosanquet's *Companion to Plato's Republic*, or Nettleship's *Philosophical Lectures and Remains*, Vol. II.

In the Higher Moral Philosophy Class the Professor will lecture on some of the subjects prescribed for the Degree with Honours. During next session this class will meet at 12 noon.

¹ Mr. Arthur was assistant and successor to Dr. Reid from 22nd May, 1780.

POLITICAL PHILOSOPHY.

Lecturer—ROBERT A. DUFF, D.Phil.

The Political Philosophy Class meets three days a week during the Summer Session. It is intended to meet the requirements of students preparing for the Degree of M.A. with Honours in *Mental Philosophy*, or in *Economic Science*, and for the Examinations of the Civil Service in Political Science.

The Course of Lectures will include a discussion of the main theories as to the nature and functions of the State; a critical account of the growth of institutions; and an analysis of the moral principles underlying political rights and obligations.

Students will be expected to pursue during the Session a course of reading of prescribed portions of books dealing with the subjects treated of in the Lectures, and, in particular, to acquire accurate knowledge of Aristotle's *Politics*, Green's *Principles of Political Obligation*, and Sidgwick's *Elements of Politics*. Essays and exercises will be prescribed from time to time.

In addition to this Summer Class, Lectures will be delivered during the Winter Session in connection with the Honours Course in Moral Philosophy.

The days and hours of these Lectures will be suited to the requirements of the students who wish to attend.

III. POLITICAL ECONOMY.

This Chair (called the Adam Smith Chair of Political Economy) was founded by Ordinance No. 149 of the Universities Commission (1889) of date 25th February, 1896, with an endowment of fifteen thousand pounds sterling, given by Mr. Andrew Stewart, merchant, Glasgow. The patronage is vested in the University Court, conjointly with one representative from time to time elected by the Merchants' House of the City of Glasgow, one representative from time to time elected by the Trades' House of the City of Glasgow, and one representative from time to time elected by the Chamber of Commerce of the City of Glasgow. The professor is a professor in the Faculties of Arts and Law.

Before the founding of the Chair, Political Economy was attached to the Chair of Moral Philosophy till 1892, when a separate lectureship was instituted by the University.

Professor.

1896. WILLIAM SMART, M.A., D.Phil., LL.D.

The Political Economy Ordinary Class meets at 2 P.M.

The Lectures, which are partly doctrinal, partly historical, are intended to accompany the study of prescribed books. The first part of the course will deal with Demand and Consumption: the Agents of Production—Land, Labour, Capital, and Organization: Theory of the Equilibrium of Demand and Supply: Value, or Distribution and Exchange: Trade Unions. (Text-books: Marshall, *Elements of Economics of Industry*, third edition, 1899; Smart, *The Distribution of Income*.) Thereafter Money, Credit and Banking, and International Trade will be taken up. (Text-books: Gide, *Political Economy*, Book II.; Smart, *The Return to Protection*.) For preparatory reading students are recommended to Gide's *Political Economy* (Isbister, London, or eighth French edition, 1903, Larose, Paris).

HONOURS CLASS. The Class meets at 3 P.M. Subjects: Taxation and Public Finance, with some study of the Theory of the State. Special study will be made of the activities and finance of municipalities, and of current economic problems as they present themselves.

Students are recommended to confine themselves for preparatory reading to mastering Marshall's *Principles of Economics*, Vol. I., Books V. and VI., fourth edition, 1898.

IV. EDUCATION.

THEORY, ART, AND HISTORY OF EDUCATION.

This Lectureship was instituted by the University in 1894.

Lecturers.

1894. David Ross, M.A., B.Sc., LL.D.

1899. John Adams, M.A., B.Sc.

1902. JOHN CLARK, M.A.

N.B.—Students are strongly advised to take the Education Class not earlier than either the Logic Class or the Moral Philosophy Class.

The Education Class meets daily at 4 P.M. The course consists of one hundred lectures qualifying for graduation in Arts.

A. THEORY.—The nature and limits of Education; its principles; its logical, psychological, and ethical bases.

B. ART.—Communication between minds ; method in general and the evolution of modern methods ; sequence of studies and their relative values, utilitarian and disciplinary.

C. HISTORY.—Educational systems in general ; special study of the periods to which the prescribed text-books refer, and of early Scottish education.

Books for class work and reference.—Bosanquet's *Education of the Young in the Republic of Plato* (Cambridge University Press) ; Burnet's *Aristotle on Education* (Cambridge University Press) ; Adams's *Herbartian Psychology applied to Education* (Isbister) ; Herbert Spencer's *Education* (Williams & Norgate) ; Thring's *Theory and Practice of Teaching* (Cambridge University Press).

V. PHILOSOPHY OF LAW.

(See under Faculty of Law, p. 129.)

C. SCIENCE.

I. MATHEMATICS.

This Professorship, long suppressed for want of funds, was revived by an Act of Faculty in 1691. The Professor is appointed by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

Professors from the year 1691.

1691. George Sinclair.	1796 ¹ . James Millar, M.A.
1699. Robert Sinclair, M.D.	1832. James Thomson, LL.D.
1711. Robert Simson, M.D.	1849. Hugh Blackburn, LL.D.
1761. James Williamson, D.D.	1879. WILLIAM JACK, LL.D.

Ordinary Class.

Subjects: *Euclid*, Books IV., VI., and XI. 1—21, more advanced *Algebra*, and the Elements of *Transversals* and of *Analytical Geometry of the straight line and circle*, *Trigonometry*, including solution of triangles. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 12 to 1.

Intermediate Honours Class.

Subjects: *Plane Trigonometry*, *Analytical Conics*, *Differential and Elements of Integral Calculus*. There will be two

¹ Mr. Millar was assistant and successor to Dr. Williamson from 26th Feb., 1789.

divisions of the Class, one meeting from 10 to 11, and one meeting from 11 to 12, daily, except on Saturdays.

Advanced Honours Class.

Subjects: *Integral Calculus, Spherical Trigonometry, Geometry of Three Dimensions, Differential Equations.* The class meets at 11-12 on Mondays, Wednesdays, and Fridays.

For the "Lorimer," the "Metcalf," and the "Muir" Bursaries in Mathematics, see under Bursaries; and for the Cunninghame Gold Medal, see under Prizes.

II. NATURAL PHILOSOPHY.

This Professorship was founded by the Charter of *Nova Erectio* in 1577; and the Professor was confined to the department of Natural Philosophy in 1727. The Professor is elected by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

Professors from the year 1727.

1727. Robert Dick.

1751. Robert Dick, M.D.

1803. W. Meikleham, LL.D.

1757. John Anderson, M.A.

1846. Lord Kelvin, D.C.L.,

1796. James Brown, LL.D.

LL.D., F.R.S.

1899. ANDREW GRAY, LL.D., F.R.S.

Lecturers.

PHYSICS, - - - - - G. W. Walker, M.A.

ELECTRICITY—PURE AND APPLIED, - James Muir, D.Sc.

University Assistant.

G. W. Walker, M.A.

Arnott and Thomson Demonstrator.

James Muir, D.Sc.

Second Assistant.

James G. Gray, B.Sc.

I. ORDINARY CLASS.—The Ordinary Natural Philosophy Class meets daily at 9 A.M. The main divisions of the course are Elementary Dynamics and Properties of Matter, Sound, Heat, Light, Magnetism and Electricity. The lectures are fully illustrated by experiments. A detailed programme of the course will be published before the beginning of the session and supplied to students on application at the Physical Laboratory.

Tutorial Class.—Students attending the Ordinary Class are

recommended also to attend the Tutorial Class, which meets on Tuesdays and Thursdays at 11 A.M. The work done in this class consists largely of numerical and other examples dealing with the subject-matter of the Ordinary Class lectures.

II. HIGHER MATHEMATICAL CLASS, A.—This class meets three times a week, on Mondays, at 1 P.M., and on Wednesdays and Fridays, at 12 noon, and is suitable for Honours Students and students who are proceeding to the Degree of B.Sc. in Pure Science.¹

The work comprises the Mathematical Theories of selected special branches of Natural Philosophy. The subjects treated in next session will be Higher Dynamics, and one or more of the following: Thermodynamics, Electromagnetism, Wave Theory of Light, Conduction of Heat.

III. HIGHER MATHEMATICAL CLASS, B.—This class deals mainly with Dynamics, which will be treated in such detail and with such reference to practical problems as may render it suitable for Students of Engineering. A knowledge of Elementary Differential and Integral Calculus only will be assumed in this class, and students who desire to join it are strongly advised to begin the study of this branch of mathematics at least in the preceding summer. Professor Gibson's Elementary Treatise on the Calculus will be found useful in connection with this class. The class will meet on Mondays, Tuesdays, and Thursdays at 12 noon throughout the session. Attendance upon it will qualify for the Degree of B.Sc. in Engineering Science.

IV. ELECTRICITY PURE AND APPLIED.—This class will meet at 12 noon on Wednesdays and Fridays, during the Winter Session, if a sufficient number of students present themselves. The course is one of the options for the Degree of B.Sc. in Engineering Science.

It is very desirable that students attending this class should either be attending or have already attended a course of Practical Physics in the Physical Laboratory.

V. PHYSICAL LABORATORY.—Experimental Courses will be given in the Physical Laboratory from 10 to 4 daily throughout the Winter and Summer Sessions.

¹The Course in Natural Philosophy for the Final Examination for the Degree of B.Sc. in Pure Science consists of the Higher Mathematical Class (II., A) and the Laboratory Course (B).

A. Ordinary Course.—This is the qualifying course for the Science Degrees. It is suitable for ordinary students of Natural Philosophy, and is recommended to all whose arrangements will permit of their taking a laboratory course. Attendance may be made up of three months in the Winter Session together with the Summer Session. A student may qualify for the Degree of B.Sc. in Engineering Science by attendance in the Summer Session only.

B. Advanced Course.—A series of advanced exercises in Heat, Light, and Electricity has been arranged, and will be carried on during the Winter Session.¹

A syllabus of Courses *A* and *B* may be had on application at the Laboratory; arrangements as to hours of attendance will be made at the beginning of each session.

C. A Special Class for Practical Work in Physics for King's Students attending the University Classes has been arranged and meets daily at a fixed hour during the summer session.

D. Research Work.—Research work is carried on daily under the superintendence of the Professor, his Official Assistant, and the Arnott and Thomson Demonstrator.

Research Students in 1903-4.—Robert Hamilton, M.A.; Robert A. Houstoun, M.A., B.Sc.; Dougald B. MacQuistan, M.A., B.Sc.; John Miller; William Miller, M.A., B.Sc.; and W. E. Williams, B.Sc.

Books recommended: For I. Ordinary Class.—Watson's *Text-Book of Physics* and Bottomley's *Mathematical Tables*. For reference, Thomson and Tait's *Elements of Natural Philosophy*; Gray's *Treatise on Physics*, Part I. For II. Higher Mathematical Class (A.).—Gray's *Treatise on Physics*, Part I.; and Treatises recommended in connection with special subjects treated. For III. Higher Mathematical Class (B.).—Gray's *Treatise on Physics*, Part I. For IV. Electricity Pure and Applied—Gray's *Absolute Measurements in Electricity and Magnetism* (smaller treatise); Maclean's *Physical Units*. For V. Physical Laboratory.—Stewart and Gee's *Elementary Practical Physics*; Glazebrook and Shaw's *Practical Physics*; Gray's *Absolute Measurements in Electricity and Magnetism* (smaller treatise). For reference, Kohlrausch's *Physical Measurements*; Wiedemann's *Elektricität*; Gray's *Theory and Practice of Absolute Measurements in Electricity and Magnetism*.

¹ See note on preceding page.

PHYSICS.

Lecturer—GEORGE W. WALKER, M.A.

The lectures of this course are designed primarily for students proceeding to the First Professional Examination in Medicine. They are delivered daily at 11 A.M. during the Summer Session in the Natural Philosophy Department, and embrace the fundamental principles of the Dynamics of Solids, Liquids, and Gases, and the rudiments of Sound, Light, Heat, Magnetism, and Electricity. A detailed programme of the subjects of the course, containing the titles of books recommended for use by students and of works which may be consulted, is given to each student at the beginning of the course.

Two written examinations are held during the session, and the Class meets for a tutorial hour weekly in which additional instruction is given by oral examination and by exercises on the previous lectures.

For the Arnott Prize in General Physics, see Index.

ELECTRICITY—PURE AND APPLIED.

Lecturer—JAMES MUIR, D.Sc.

(See p. 83 above.)

III. ASTRONOMY.

(See under Faculty of Science, page 88.)

IV. CHEMISTRY.

(See under Faculty of Medicine, page 103.)

V. ZOOLOGY.

(See under Faculty of Medicine, page 102.)

VI. BOTANY.

(See under Faculty of Medicine, page 101.)

D. HISTORY AND LAW.

I. HISTORY.

This Chair was founded by Ordinance No. 28 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court.

Professors.

1894. Richard Lodge, M.A.

1899. DUDLEY J. MEDLEY, M.A.

ORDINARY CLASS.—The Class meets daily at 10 A.M., except

on Saturdays. The course consists of one hundred lectures qualifying for graduation.

In session 1904-5 the Professor will lecture on the History of England and Scotland to 1880. Any recognised text-book may be taken by the student as the basis of his study. The Professor would, however, especially recommend Green, *Short History of the English People*, together with either Powell and Tout, *History of England*, or Hassall, *Class-Book of English History* (Rivington's) and Hume Brown, *History of Scotland*. Those who are taking the class with a view to Honours in Economics should add G. Townshend Warner, *Landmarks in English Industrial History* (Blackie). Before joining this class students would do well to make a preliminary study of the geography of the British Isles and Empire, and to practise themselves in the drawing of outline maps.

HONOURS CLASS.—This Class meets on Mondays, Wednesdays, and Fridays, at 11 A.M. During session 1904-5 the Professor proposes to lecture on the History of the Middle Ages: 476-1272, with especial reference to the period 800-1272.

Students who intend to join this class would do well to study the geography of continental Europe, and, if possible, to acquire some facility in reading ordinary narrative French. They are also recommended to read the following books—Bryce, *Holy Roman Empire*; Church, *Beginning of the Middle Ages*; Guizot, *History of Civilisation in France*. For a more detailed list of books, application should be made during the vacation, either personally or by letter, to the Professor.

BRITISH HISTORY CLASS FOR HONOURS IN ENGLISH.

Lecturer—J. L. MORISON, M.A.

This Class meets on Mondays, Wednesdays, and Fridays, at 10 A.M.; and is more particularly concerned with the periods of British History prescribed for Honours in English.

During the session 1904-5 the subject for lecture will be "The Renaissance and Reformation in English History"; it is intended to trace these movements (with their social consequences) especially through the reigns of Edward III., Richard II., and the Tudors, while a few lectures will deal with England in the fifteenth century.

The period may be studied in the following books: Langland's *Piers Plowman*; the *Chronicles* of Froissart; Trevelyan's

England in the age of Wycliffe; Gairdner's *Introduction to the Paston Letters*; Seebohm's *Oxford Reformers*, in conjunction with More's *Utopia*, and Roper's *Life of More*; Einstein's *The Italian Renaissance in England*; Gairdner's *History of the English Church to the death of Mary*; Latimer's *Sermons*; Pollard's *The Protector Somerset*; Creighton's *Queen Elizabeth*; Hooker's *Ecclesiastical Polity*. Reference should also be made to these longer works: Creighton's *History of the Papacy*; Froude's *History*; and Dixon's *History of the English Church*.

NOTE.—*The classes recognized as Honours Classes in the Group of History are the Honours Classes held by the Professor of History and by the Lecturer in Constitutional Law and History.*

II. CONSTITUTIONAL LAW AND HISTORY.

Lecturer.

1894. WILLIAM S. M'KECHNIE, M.A., LL.B., D.Phil.

ORDINARY CLASS.—This class now extends to a hundred meetings, and qualifies as a full course for graduation both for the ordinary M.A. and for Honours in History. (For subjects of study, text-books, etc., see under Faculty of Law, page 129.)

HONOURS CLASS.—In the winter session of 1904-5, in the event of any candidates for Honours in History presenting themselves, a course of fifty lectures (qualifying *pro tanto* for graduation with Honours) will be given on the early Constitutional History of England till 1295. The class text-book will be Stubbs, *Select Charters*. Before joining the class students are advised to read Medley, *Constitutional History*, and the following works are suggested for the use of students before or during the session:—Stubbs, *History*; Pollock and Maitland, *History of English Law*. The class meets on Mondays, Wednesdays, and Fridays at 1 P.M.

III. ROMAN LAW.

(See under Faculty of Law, page 127.)

II.—FACULTY OF SCIENCE.

The Faculty of Science was instituted by Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, and embraces the classes of Mathematics, Natural Philosophy, Astronomy, Chemistry, Geology, Zoology, Botany, Anatomy, Physiology, Civil Engineering and Mechanics, and

Naval Architecture. In this Faculty there are also classes in Electricity—Pure and Applied, Electrical Engineering, Mining, Physical Chemistry, Organic Chemistry, Metallurgical Chemistry, and Public Health.

I. MATHEMATICS.

(See under Faculty of Arts, page 81.)

II. NATURAL PHILOSOPHY.

(See under Faculty of Arts, page 82.)

III. ASTRONOMY.

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown. By Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, it is now called Astronomy, and the Professor is a member of the Faculty of Science, the Chair having been transferred by the Universities Commission in 1893 from the Faculty of Arts to the newly instituted Faculty of Science.

Professors.

1760. Alex. Wilson, LL.D.	1803. James Cooper, D.D.
1784 ¹ . Patrick Wilson, LL.D.	1836. John P. Nichol, LL.D.
1799. W. Meikleham, LL.D.	1859. R. Grant, LL.D., F.R.S.
1893. LUDWIG BECKER, Ph.D., F.R.A.S.	

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the vicinity of the University buildings.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astronomy and the students attending his prelections.

The Trustees of the Bellahouston Bequest Fund recently made the generous grant of eleven hundred pounds towards the Chair of Astronomy.

The Professor of Astronomy who is chiefly occupied in directing the operations of the Observatory delivers a Course of Lectures on Astronomy at the University during the session, and gives expositions on instruments and methods of observation at the Observatory.

¹ Dr. P. Wilson was assistant to his father from 5th June, 1782.

First Class.

Subjects: Elementary Mathematical Astronomy—The celestial sphere, description and theory of instruments, determination of latitude and time. Spherical Astronomy—Precession, Nutation, Aberration, Figure of the Earth. Deductions from Kepler's Laws, Occultations.

The class meets at 3 P.M. on Mondays, Wednesdays, and during the first half of the session on Fridays. Practical Demonstrations at the Observatory.

Book recommended for general reading:—Charles A. Young, *Manual of Astronomy* (Ginn & Co., Boston and London, 1902).

Second Class.

Subject: Celestial Dynamics.

The students ought to be well prepared on the subjects of the Intermediate Honours Mathematical Class.

The class meets at 3 P.M. on Tuesdays and Thursdays, and during the second half of the session on Fridays.

Attendance on the two classes, either in the same session or in different sessions, counts as a full course for the Degree of M.A. The first and second classes, which may be taken in one session, with practical work at the Observatory, are a full course for the Degree of B.Sc.; the practical work at the Observatory may be done during the winter or summer session, and the student may undergo his Degree examination before he has finished his practical work.

IV. CHEMISTRY.

(See under Faculty of Medicine, page 103.)

ORGANIC CHEMISTRY.

(See under Faculty of Medicine, page 104.)

METALLURGICAL CHEMISTRY.

This Lectureship was instituted by the University in 1899.

Lecturer.

WILLIAM CARRICK ANDERSON, M.A., D.Sc.

Two independent courses of lectures are given in each year, the first or "A" Course from October till December, and the second or "B" Course from April till June. Each class meets three days a week.

Class "A." The lectures deal with the chemical properties, preparation, and uses of fuels, solid, liquid, and gaseous; the composition of slags and refractory materials, and the methods

employed for extraction of the principal industrial metals with special reference to the chemical principles involved.

Class "B." The earlier part of this course treats of the elements of physical chemistry, and the principles of thermochemistry, including thermal measurements and calculations with reference to the use of fuels, are afterwards dealt with in fuller detail. The latter part is devoted to the chemistry of industrial metals and alloys.

Practical Courses.—The Chemical Department is equipped with crucible, muffle and tube furnaces heated by gas and electricity, as well as with the apparatus required for the micrographical examination of metals. Practical instruction in assaying and general metallurgical work is given during both Winter and Summer Sessions.

PHYSICAL CHEMISTRY (INCLUDING RADIO-ACTIVITY).

This Lectureship was instituted by the University Court in 1904.

Lecturer.

1904. FREDERICK SODDY, M.A.

I. PHYSICAL CHEMISTRY.

An introductory class dealing with the outlines of physical and theoretical chemistry will be held during the winter session at times to be arranged, and will comprise about 25 lectures. It will commence with an historical account of the development of the conception of energy in chemistry, and the present position and scope of chemical theories. The following topics will be introduced :—The properties of gases, liquids and solids, and their relationships, including the kinetic theory of gases, the critical state, and the physical explanation of specific and latent heat; the relations between chemical energy and heat, light and electricity, comprising the branches of thermochemistry, photo-chemistry and electro-chemistry respectively; the measurement of the rates of chemical change, the conception of chemical equilibrium, and the measurement of chemical affinity.

In conjunction with these lectures a practical class will be held in the laboratory specially equipped for work in physical chemistry. It will cover the use of the common physical instruments for chemical purposes, and the application of physical methods of measurement in chemistry.

More advanced instruction will be given as required for those wishing to continue the subject. Special facilities are being provided in the laboratories for advanced and research work in this subject and in radio-activity.

II. RADIO-ACTIVITY.

A course of twelve to fifteen lectures in this subject will be held during the winter session. Times will be arranged to suit the convenience of the majority. It will deal with the radio-elements uranium, thorium, radium, actinium, and polonium; the peculiarities and distinguishing features of the radio-active properties; the methods of measuring radio-activity; the nature of the α , β and γ rays of the radio-active substances; the types of matter exhibiting temporary radio-activity, uranium X, thorium X, the emanations, etc.; the conception of radio-active change and the theory of atomic disintegration; the formation of helium from radium; the enormous internal energy of matter associated with the atomic structure, and its bearing on the sciences of astronomy, geology and biology.

The course will be illustrated throughout by experiments, and arrangements are being made to equip a laboratory specially for those wishing to pursue practical investigations and to undertake original research in this subject.

V. GEOLOGY.

This Chair was founded by the University Court Ordinance No. VIII.¹ (Glasgow, No. 3) of date 12th February, 1903, an endowment of fifteen thousands pounds sterling having been provided by the Carnegie Trust, the Bellahouston Trust, and other Donors. The Professor is appointed by the University Court, and is a Professor in the Faculty of Science.

In 1876 the late Mrs. Honyman Gillespie of Torbanehill, endowed a Lectureship in Geology, to be called the Honyman Gillespie Lectureship, in memory of her husband, W. Honyman Gillespie, Esq. The Lectureship was attached by the Deed of Foundation to the Chair of Natural History, but power was given to the Trustees to withdraw it from that chair and to attach the income to the Chair of Geology when founded. The Trustees have agreed to exercise that power and pay over the annual income of the Honyman Gillespie Lectureship to the University Court to augment the salary of the Professor of Geology.

Professor.

1904. JOHN WALTER GREGORY, D.Sc., F.R.S.

Geology is a subject of study for the Degrees of M.A., B.Sc.

¹ The text of this Ordinance is printed in full in Appendix V.

in Pure Science, B.Sc. in Engineering, B.Sc. in Mining, B.Sc. in Agriculture, and B.Sc. in Public Health. The arrangements are not yet (May, 1904) complete, but for the Degree in Arts there will be one hundred meetings of the class, including practical work, for the B.Sc. in Engineering and the B.Sc. in Public Health fifty lectures, while to be admitted to the Final Examination for B.Sc. in Pure Science a student must produce certificates showing that he has taken the course for M.A. and subsequently attended a higher course of fifty lectures with Practical Laboratory work.

VI. ZOOLOGY.

(See under Faculty of Medicine, page 102.)

VII. BOTANY.

(See under Faculty of Medicine, page 101.)

VIII. ANATOMY.

(See under Faculty of Medicine, page 105.)

IX. PHYSIOLOGY.

(See under Faculty of Medicine, page 107.)

X. CIVIL ENGINEERING AND MECHANICS.

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872 by a supplemental endowment¹ by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow; and more recently, in 1876, an Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow.² The University Court instituted a lectureship on Electrical Engineering in 1898, and one on Engineering Drawing and Design in 1901.

Professors.

- 1840. Lewis D. B. Gordon, C.E.
- 1855. William J. Macquorn Rankine, C.E., LL.D.
- 1873. James Thomson, C.E., LL.D., D.Sc., F.R.S.
- 1889. ARCHIBALD BARR, D.Sc., M.Inst.C.E., M.I.Mech.E.

Lecturer on Electrical Engineering.

James Blacklock Henderson, D.Sc.

¹ The annual income of a sum of £5000.

² The salary for the Young Assistantship thus founded is now £133.

Lecturer on Engineering Drawing and Design.

Henry Bamford, M.Sc., A.M.Inst.C.E.

Young Assistant.

William Alexander.

Demonstrators.

The courses in Engineering extend throughout the winter session, that is, from 13th October till 23rd March. They comprise Lectures on Engineering Principles and Practice, Instruction in Geometrical Drawing and in Engineering Drawing and Design, Laboratory Practice, and visits to Engineering Works and Manufactories.

These courses are designed primarily to suit students who intend to devote themselves to Civil, Mechanical, Electrical, or Mining Engineering; but the work of the classes will be found of direct practical utility to architects and to men who are engaged in any occupations connected with manufactures.

The work of the classes is not intended in any way to supersede the usual requirements of pupilage or apprenticeship in Engineering, but to enable the Engineer to gain such a knowledge of the principles underlying his profession or trade as he cannot acquire by only working in the office, in the field, or in the workshop. The classes may be attended either before or after pupilage or apprenticeship, or concurrently therewith. In most cases the students spend the summer six months in works or offices and thus get their scientific and practical training on the "sandwich" system.

Six Courses of Lectures, including Electrical Engineering, are arranged for, five of which are delivered in each session.

CLASS I.—THE MATERIALS OF CONSTRUCTION AND THE ELEMENTS OF APPLIED MECHANICS.—Daily at 9 A.M. Subjects: Preparation, Properties and Uses of the Chief Constructive Materials, especially of Cast Iron, Wrought Iron and Steel, Brass and other Alloys, Timber, Building Stones, Cements and Concrete; Graphics, Steam, Gas, and Oil Engines, and other Prime Movers; and the more Elementary Principles of Mechanics in their application to problems connected with Engineering Structures and Machines.

CLASS II.—SURVEYING, LEVELLING, AND SETTING-OUT OF WORKS.—Mondays, Wednesdays, and Fridays, at 10 A.M. Subjects:—Surveying with the Chain and with Angular Instruments; Telemetry; Levelling; the Optical and Mechanical Principles, Tests, and Adjustments of Surveying and Levelling Instruments; Setting-out of Works, especially Setting-out of Railways; Mensuration of Areas of Land and of Volumes in Earth Works; the Execution of Civil Engineering Works. The Lectures will treat for the most part of those portions of the subject which are not readily learned in ordinary field and office practice.

CLASS III.—PRIME MOVERS AND THE MECHANICS OF MACHINERY.—This class will not be held during the present session. It is held in alternate years with Class II., on Mondays, Wednesdays, and Fridays at 10 A.M.—The Lectures treat of the Sources of Energy; Fuels; the Theory of Steam and Gas and other Heat Engines; the structural details of Boilers and Engines; the Mechanics of Machinery; the Elements of Machine Design; the Transmission of Power; and Friction and Lubrication in Machines. Attendance on this class should be preceded by attendance on Class I. in the case of students entering with no knowledge of Applied Mechanics.

CLASS IV.—HIGHER APPLIED MECHANICS AND HYDRAULICS.—Daily, except Saturday, at 9 A.M. The Lectures treat of the Strength and Elasticity of Materials, the Strength and Stiffness of Beams, Girders, Columns, Framed Structures, Shafts, etc.; Hydraulics and Hydraulic Appliances, including the Gauging of Water, the Flow of Water in Pipes, and the Principles of Water Wheels, Turbines, and Centrifugal Pumps.

ENGINEERING DRAWING AND DESIGN.—The drawing classroom is open daily, except Saturday, from 9 A.M. till 5 P.M. Each student will be required to attend six hours per week (at times to be arranged at the commencement of the session), and will be expected to devote extra time to the performance of work. The work of the classes will comprise Lectures and Practice in Civil and Mechanical Engineering Drawing; Lectures and Practice in Design of Structures, Descriptive Geometry, Graphical Statics, and the Kinematics of machinery, and the performance of graphical work and calculations in connection with the lecture courses.

ENGINEERING LABORATORIES.—The James Watt Engineering Laboratories, which have been erected and equipped at a total cost of about £40,000, are now complete. A separate description of the Laboratories will be published. The equipment includes a steam boiler for 100 horse power, steam, gas, oil, petrol, and hot-air engines; a 50 horse power steam turbine; a refrigerating plant; 100-ton and 10-ton testing machines arranged for tests in tension, compression, bending, and torsion, and fitted with autographic stress and strain recorders; cement testing appliances; a variety of water turbines; apparatus for experiments on the flow of water through orifices and pipes, and other apparatus for investigations bearing upon Engineering Science and Practice.

The Laboratories are open daily; the hours of attendance are arranged with the individual students.

For the purposes of Ordinance No. 23, Section IX. (see page 226), Class IV., together with Laboratory practice, counts as a whole course; any two of the other Lecture Classes (I., II., III., Electrical Junior, Electrical Senior), together with Laboratory practice, count as a whole course. Candidates taking the second option under Section IX., *i.e.* candidates for the Degree of B.Sc. on the side of Naval Architecture, are required to take Class IV. together with Laboratory practice.

ELECTRICAL ENGINEERING.

A Lectureship in Electrical Engineering was instituted by the University Court in 1898.

Lecturers.

1898. John Dewar Cormack, B.Sc.

1901. James Blacklock Henderson, D.Sc.

Two classes are held during the Winter Session. For the purposes of Ordinance No. 23, Section IX. (see page 226) the Junior Class, along with Laboratory practice, *or* the Senior Class, with Laboratory practice, counts as a half course, while both classes, along with Laboratory practice, constitute a full course.

The Electrical Laboratory is part of the new James Watt Memorial Laboratories, and is open daily, except Saturdays, for experimental and research work.

Junior Class—Mondays, Wednesdays, and Fridays at 8 A.M. Subjects:—Practical units of current, quantity, E.M.F. resistance, power, and energy; Ammeters, voltmeters, ohmmeters, wattmeters, and energymeters; Winding of resistances. Cells and the calculation of E.M. Forces; Secondary cells and their chemical reactions; Electrochemical processes. Magnetic properties of iron and steel and their measurement; the magnetic circuit; Hysteresis and hysteresis losses. Electro-magnetic induction and the production of E.M.F.; Development of the dynamo; Winding of field magnets and armatures. Conditions for sparkless commutation; characteristic curves; efficiency of dynamos and motors; methods of testing dynamos and motors. Modern direct current machinery; types of motors; motor starters and controllers; tramway, lift and crane controllers. Direct current distribution; Kelvin's law of economy. Alternating E.M. Forces and currents; relation between mean, maximum and effective values; rotating fields; measurement of alternating currents; E.M. Forces and power; power factors. Alternators; rotary converters; synchronous and induction motors; arc lamps.

Text-book: Crapper's *Electric and Magnetic Circuits*.

Books of reference: Sheldon and Mason's *Direct Current Machinery*; Sheldon and Mason's *Alternating Current Machinery*.

Senior Class—Tuesdays, Thursdays, and Saturdays, at 8 A.M. Subjects:—Direct current motors series and shunt; accelerating torque; mechanical characteristic. Dynamo design; relation of size to output; proportioning of parts; choice and calculation of winding; theory of commutation; construction of commutators. Alternate current phenomena; single and polyphase currents; mathematical and graphical treatment of alternating current problems; armature reaction. The working of alternators singly and in parallel; methods of paralleling; armature reaction in polyphase machines and rotary converters; design of polyphase machines; design of transformers. Induction motors, single and polyphase; methods of starting; repulsion motors; compensated asynchronous and synchronous motors and generators. Characteristics of alternators and motors; testing of alternators; compounding of alternators, distribution of power and distribution losses.

Text-book : Steinmetz's *Elements of Electrical Engineering*.

Books of reference : Steinmetz's *Alternating Current Phenomena* ; S. P. Thompson's *Polyphase Currents* ; Kapp's *Dynamos and Alternators*.

Practical Course—The equipment of the Electrical Laboratories include a 30 K.W. three-phase generator, and a 7 K.W. two-phase generator, both motor driven, two 9 K.W. rotary converters, two tramway motors mounted for experimental work, a 5 K.W. continuous current motor generator or booster, a 5 K.W. balance set, and motors of various kinds for continuous and alternating current. The electrical plants in other parts of the James Watt Laboratories also provide subjects for experiment. These include a 34 K.W. de Laval steam turbine dynamo, a 30 K.W. high speed engine and dynamo, an electrically driven lift, and motor-driven fan, air pump and centrifugal pump. The instrument room is equipped with the most modern measuring instruments.

As to the Degrees of B.Sc. and D.Sc. in Engineering Science, see Index.

As to the Certificate of Proficiency in Engineering Science, see Index.

As to the Muir Bursaries, the Metcalfe Bursaries, the Dr. Strang Bursaries, the George Young Bursary, the Walker Prizes, the George Harvey Prize, the James Watt Scholarship, and the Lindsay Burnet Medal in the Department of Civil Engineering and Mechanics, see Index.

XI. MINING.

THEORY AND PRACTICE OF MINING.

On 26th March, 1902, Mr. James S. Dixon, Fairleigh, Bothwell, recognising the want of a means of teaching the higher branches of the Theory and Practice of Mining, and the desire for acquiring such knowledge displayed by many young men connected with mining, made an offer of £10,000 to found a Chair or Lectureship of Mining in the University of Glasgow. The University Court accepted the offer, and a Lectureship has accordingly been founded. The Lecturer is appointed by a special body consisting of (1) the members of the Court, (2) the President of the Mining Institute of Scotland, (3) His

Majesty's Inspector of Mines for the Western District of Scotland, (4) His Majesty's Inspector of Mines for the Eastern District of Scotland, (5) the President of the Lanarkshire Coal-masters' Association, and (6) the Donor during his life or till his resignation. The appointing body has the power at the expiry of the first five years from the institution of the Lectureship, and at the expiry of every five years thereafter, to revise and alter the scope of the Lectureship and the duties of the Lecturer.

Lecturer.

1902. CHARLES LATHAM, M.Inst.M.E.

The courses in mining are held in the James Watt Engineering Laboratories, and extend throughout the winter session. Arrangements have been made for a limited number of students to obtain practical experience, during the summer months, at some of the largest and best equipped collieries in Scotland.

MINING ENGINEERING.

CLASS I.—Mondays and Wednesdays at 3 P.M. Subjects:—Prospecting, Boring, Sinking, Winding and Ventilation.

CLASS II.—Tuesdays and Thursdays at 3 P.M. Subjects:—Explosives, Haulage, Pumping, Lighting, Timbering, Coal Cutting Machinery, and Surface Arrangements.

CLASS III.—Thursdays at 4 P.M. Subjects:—Methods of working Coal and Metalliferous Mines.

As to the degree of B.Sc. in Mining Engineering, see Index.

EVENING CLASSES.

For the benefit of those students who do not wish to take the degree, a similar course to the above will be given in the evening as follows: Class I., Mondays and Wednesdays at 6.30 P.M.; Class II., Tuesdays and Thursdays at 6.30 P.M.; Class III., Tuesdays at 7.30 P.M.

MINE MANAGEMENT.

This course is intended for students who wish to qualify as mine managers under the Coal Mines Regulation Act, and extends over two years.

CLASS I.—Mondays at 7.30 P.M. Subjects:—Boring, Sinking, Explosives, Winding, and Ventilation.

CLASS II.—Wednesdays at 7.30 P.M. Subjects :—Methods of Working, Haulage, Pumping, Lighting, Timbering, Coal Cutting Machinery, and Surface Arrangements.

XII. NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

The John Elder Chair of Naval Architecture was founded by the University in 1883. An endowment of £12,500 was provided by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow. The Professor is appointed by the University Court.

Professors.

1883. Francis Elgar, LL.D. | 1886. Philip Jenkins.

1891. JOHN HARVARD BILES, LL.D.

The courses of the Professor comprise a Junior Course of Lectures and Examinations upon Naval Architecture and Marine Engine and Boiler Design, and a Senior Course of Lectures and Examinations upon Naval Architecture and Marine Engine Design ; also a Junior and a Senior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design. The Junior Course of Lectures and Examinations may be taken in either the first or the second year of the regular curriculum, and the classes will meet on Mondays, Wednesdays, and Fridays at 12 noon, or at any other hour that may be found convenient. The classes of the Senior Course will be held on Mondays, Tuesdays, and Thursdays from 11 A.M. to 12 noon, or at any other hour that may be found convenient.

The Junior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design is expected to be taken by students in the first year of the regular curriculum ; and the classes will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any hour that may be found convenient. The classes of the Senior Course will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any other hour that may be found convenient.

As to the Degree of B.Sc. on the side of Naval Architecture and Marine Engineering, see Index.

As to the Lloyd's Register Scholarship, the Elder Bursaries, and the Kirk Memorial Prize, see Index.

III.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the Classes of Botany, Zoology, Physics, Chemistry, Anatomy, Embryology, Physiology, Materia Medica, Pathology, Forensic Medicine, Surgery, Clinical Surgery, Practice of Medicine, Clinical Medicine, Midwifery, Insanity, Diseases of the Eye, Diseases of the Ear, Diseases of the Throat and Nose, Diseases of the Skin, and Diseases of Children.

ORDER OF STUDY RECOMMENDED.

It is advantageous that the Student should commence his studies in Summer. Candidates are advised not to go up for examination in Chemistry and Zoology till the Autumn before the Second Winter.

1ST SUMMER.—Physics and Botany.

1ST WINTER.—Chemistry, Junior Anatomy, Zoology. Practical Zoology may also be taken. Practical Chemistry in Laboratory may also be taken if desired.

2ND SUMMER.—Practical Anatomy, Embryology. Practical Chemistry may be taken if not already attended.

2ND WINTER.—Senior Anatomy, Physiology and Practical Anatomy.

3RD SUMMER.—Practical Anatomy, Practical Physiology, Practical Pharmacy, Clinical Surgery and Hospital.

3RD WINTER.—Surgery, Materia Medica, Clinical Surgery, Hospital and Dispensary Practice.

4TH SUMMER.—Practical Pathology, Medical Jurisprudence and Public Health, Operative Surgery, Clinical Medicine and Hospital.

4TH WINTER.—Pathology, Practice of Medicine and Midwifery. Also Clinical Class and Hospital.

5TH SUMMER.—Insanity, Diseases of Women, the Skin, the Eye, the Ear, the Throat and Nose, Vaccination, Hospital, Fevers.

5TH WINTER.—Hospital, Midwifery Practice, and Specialities of Practice not previously attended to.

A. The subjects of the *First Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

I. BOTANY.

The subject of Botany was from 1718 conjoined with Anatomy. The combination being found unsuitable, a separate Lectureship on Botany was instituted, and ultimately, in 1818, the Professorship was founded. The appointment is vested in the Crown. (See p. 186, as to Botanic Garden.)

Professors.

1818. Robert Graham, M.D.	1845. G. A. Walker-Arnott, LL.D.
1820. Sir W. J. Hooker, LL.D.	1868. Alexander Dickson, M.D.
1841. John H. Balfour, M.D.	1879. I. B. Balfour, M.D., D.Sc.
1885. FREDERICK O. BOWER, Sc.D., F.R.S.	

Lectures are given at the University every Tuesday, Wednesday, Thursday, Friday, and Saturday at 8 A.M., during the summer session. On Saturdays, according as the season and the weather permit, either excursions are made for the study of plants in the field, or microscopic demonstrations are given in the Laboratory.

Demonstrations on fresh specimens are given in the Botanic Garden or at the University during the latter part of the session.

The Botanical Laboratory at the University is open daily from 9 A.M. to 4 P.M. from the end of April to the middle of July. Classes for elementary practical work in the Botanical Laboratory are formed during these months at hours, so far as practicable, to suit the convenience of students.

A course of Advanced Lectures, as well as a more extended course of Practical Instruction, designed for candidates for the Degree of M.A., the Science Degree, or other more advanced students, is given in the Laboratory during the winter session. Notice of times of meeting of these classes will be given in due course.

The University Herbarium may be consulted by students on applying to the Professor.

Students in the Botanical Class may obtain, by applying to the Professor, specimens of plants from the Botanic Garden for private study.

For the "Dobbie Smith" Gold Medal, see under "Prizes."

II. ZOOLOGY.

This Professorship, under the name of Natural History, was founded by George III. in 1807. It originally comprehended both Zoology and Geology, but when the Chair of Geology was founded in 1903 by the University Court Ordinance No. viii., it was provided that the Chair of Natural History should thenceforth be called the Chair of Zoology. The Professor is appointed by the Crown.

Professors.

1807. Lockhart Muirhead, LL.D.	| 1857. Henry D. Rogers, LL.D.
1829. Wm. Couper, M.D.	| 1866. John Young, M.D.
1902. J. GRAHAM KERR, M.A.	

Senior Assistant—Edward J. Bles, B.A., B.Sc.

Lectures on Zoology, including Comparative Morphology, are given daily at 9 A.M. throughout the Academical year.

The first 50 Lectures of the Course are introductory in their nature. In them an outline is given of the characters of the more important groups of the animal kingdom, special attention being devoted to such groups as are of general zoological interest, and to such as are, from their parasitic habits or otherwise, of special importance to the Student of Medicine. Details of the anatomy of the higher Vertebrates are not treated of.

In connection with this part of the Course, a Laboratory Class in Elementary Practical Zoology will be held daily from 11 to 1, and, if necessary, repeated in the afternoon from 3 to 5. In this class Students will examine for themselves examples of the main groups treated of in the systematic lectures.

During the latter half of the Winter and during the Summer Session Lectures of a less elementary character will be given suitable for candidates for degrees in Science. During the summer session the lectures will deal with the Morphology of the Vertebrata. During the latter half of the winter session the lectures will deal with two or more of the Phyla of the Invertebrata, and also with certain of the general problems of Zoology.

Practical work will be arranged at suitable hours to illustrate the Lectures and to give Students an introduction to the methods of Laboratory technique.

Students have free access to the Zoological collections in the Hunterian Museum.

Text-books for Elementary Class : Shipley & MacBride, *Zoology* ; Marshall & Hurst, *Practical Zoology*.

For the Millport Marine Biological Station, see p. 187.

III. PHYSICS.

(See under Natural Philosophy in Faculty of Arts, p. 85).

IV. CHEMISTRY.

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

Lecturers.

1747. William Cullen, M.D.	1769. William Irvine, M.D.
1756. Joseph Black, M.D.	1787. Thomas C. Hope, M.D.
1766. John Robison, LL.D.	1791. Robert Cleghorn, M.D.

Professors.

1818. Thomas Thomson, M.D.	1852. Thomas Anderson, M.D.
1874. JOHN FERGUSON, M.A., LL.D., F.S.A.	

Assistants.

William C. Anderson, M.A., D.Sc.	Matthew A. Parker, B.Sc.
James Roberts, F.C.S.	

SYSTEMATIC CHEMISTRY.—The Lectures are delivered daily at 10 A.M. during the winter session. They treat of the general principles of Chemical Philosophy and the preparation and properties of the Non-Metallic and the principal metallic elements and their compounds. The latter part of the course is devoted to the elements of Organic Chemistry.

Attendance on this course qualifies for Degrees in Arts and Medicine and for the First Examination in Science.

Tutorial Classes.—Students desiring to obtain a qualifying certificate for Degrees in connection with the systematic course are required to give attendance at one of the Tutorial Classes, each of which meets twice a week. The teaching in these classes is supplementary to that given in the systematic lecture course, and is given partly by means of oral examination and written exercises in Chemical Arithmetic.

Written examinations of the whole class are held at intervals during the session.

HIGHER COURSES.—Short courses on Metallurgical, Physical and Organic Chemistry are given during the winter and summer sessions, and to meet the requirements of Ordinance No. 12, Section IX. (4) (p. 222), a higher course will be delivered as required. It will deal with the Rare Elements, Theories of Chemistry, and the History of Chemistry.

CHEMICAL LABORATORIES.—The Laboratories are open daily (except Saturday) from 10 A.M. to 4 P.M. Junior students go through a course of inorganic preparations and qualitative analysis suitable for those proceeding to degrees in Medicine and Arts and to the First Examination in Science. Medical students are required to spend at least two and a half hours a day at practical work. Those intending to proceed to the degree in Arts or to the first examination in Science are recommended to attend for 3-3½ hours per day during a half session or to take a full session course.

Senior students go through a course consisting of quantitative analysis including the analysis of gases, exercises in physical and electrochemistry, and organic analysis and preparations. One whole session (or two half sessions) of attendance at the laboratory, after completion of the qualifying course for the first B.Sc. Examination, is required of candidates proceeding to the Final Examination in Chemistry for B.Sc., but students are strongly advised to spend a further period before attempting the Examination.

For work to be professed by Candidates for Degree Examinations in Chemistry see pp. 213, 224.

POST-GRADUATE STUDY AND RESEARCH.—Arrangements are made for graduates and others engaging in original investigation in Organic, Physical and Metallurgical Chemistry. Particulars regarding scholarships, fellowships and bursaries tenable in the chemical laboratories may be obtained from the Calendar, pp. 394, 395. Those intending to take advantage of the arrangements during next session should make timely application to the Professor.

ORGANIC CHEMISTRY.—Three courses of Lectures are given:—1. An Elementary Course during the latter part of the winter session. 2. An Advanced Course during the summer session. 3. An Elementary Course during the summer session. In the first course—which comprises about 25 lectures—the

subject is treated as follows:—Introductory, Methods of Analysis, Deduction of Formulæ, Classification of Organic Compounds, and the Chemistry of the following classes of substances—Aliphatic hydrocarbons, halogen derivatives, alcohols, ethers, esters, aldehydes and ketones, acids, etc., and a few of the more common aromatic compounds.

In the second course—in which 35-40 lectures are given—the chemistry of the aliphatic compounds is summarised, and attention is given to points of interest which are not touched on in the first course. The chemistry of the carbo-cyclic and a few of the more important hetero-cyclic compounds is treated fully, and relations existing between physical properties and chemical constitution are considered.

The third course is specially designed for medical students, and is only held provided a sufficient number come forward. It consists of about 20 lectures—the subject being treated very much as in the first course.

Practical instruction is given in the Laboratory in the methods of preparation, analysis, etc., of organic compounds.

METALLURGICAL CHEMISTRY.

(See Faculty of Science, p. 89.)

PHYSICAL CHEMISTRY.

(See Faculty of Science, p. 90.)

B. The subjects of the *Second Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

I. ANATOMY.

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and University jointly. After 1818 the province of the Chair was restricted to Anatomy.

Professors.

1720. Thomas Brisbane, M.D.	1781. William Hamilton, M.D.
1742. Robert Hamilton, M.D.	1790. James Jeffray, M.D.
1756. Joseph Black, M.D.	1848. Allen Thomson, M.D.,
1757. Thos. Hamilton, M.D.	LL.D., F.R.S.
1877. JOHN CLELAND, M.D., LL.D. (St. A. and Ed.), D.Sc., F.R.S.	

University Assistant.

James F. Gemmill, M.A., M.D., C.M.

Superintending and Lecturing Demonstrator

William K. Hutton, M.A., M.B., C.M.

Demonstrators.

Archibald N. McLellan, M.B., C.M.

William D. H. Stevenson, M.A., M.B., Ch.B.

In the WINTER SESSION Anatomical Instruction is conducted in the following courses, viz.:—

1. ELEMENTARY DESCRIPTIVE LECTURES.—This class meets on five days weekly from 1 to 2 o'clock. The Lectures comprehend a full systematic description of the Bones, Joints, Muscles and Muscular Organs, and a general view of the Nervous System and Viscera.

2. ADVANCED DESCRIPTIVE LECTURES AND DEMONSTRATIONS.—This class meets on six days weekly from 11 to 12 o'clock, viz., on five days for Lecture, and on Saturday for Microscopical Demonstrations. The course comprehends: 1st, Demonstrations of Regional or Topographical Anatomy, including the Distribution and Relations of the Blood-vessels and Nerves; 2nd, Histology and a Detailed Description of the Viscera, Brain and Organs of Sense.

3. PRACTICAL ANATOMY.—This class is under the superintendence of the Professor and Demonstrators. The dissecting room is open from 9 A.M. to 4.45 P.M. daily, except on Saturdays, when it is closed at mid-day.

Text-books.—Cleland and Mackay's *Human Anatomy*; Cleland and Mackay's *Directory for Dissection*. Also, Spalteholz, *Handatlas of Human Anatomy*, or Tolat, *Atlas of Human Anatomy*, will be found a valuable and convenient auxiliary.

In the SUMMER SESSION the rooms for Practical Anatomy are open from 8 A.M. to 3 P.M. daily.

EMBRYOLOGY.

A Lectureship on Embryology was instituted by the University Court in 1894, but the first Lecturer, Dr. John Yule Mackay, having resigned before the beginning of the second session, temporary arrangements were made for carrying on the work of the class in 1895 and 1896.

Lecturers.

1894. John Yule Mackay, M.D.

1897. JAMES F. GEMMILL, M.A., M.D.

The *Systematic Class* meets in the Anatomy Class-room at 11 A.M. on Mondays, Tuesdays, Thursdays, and Fridays of the summer session. The course deals with Vertebrate, and specially with Human Development, a certain amount of General Embryology being also included in the earlier lectures.

A *Practical Class* in Embryology is also held in the Summer Session. The course includes:—

I. Instruction in the methods of Embryological research.

II. Practical Study of:—(a) Maturation, fertilisation, segmentation etc. (Echinoderm material most suitable). (b) The development of one or more of the following types,—(1) Cartilaginous fish, (2) Amphibian, (3) Chick. (c) Mammalian development with reference to the foetal membranes, placenta and uterus, especially in the human subject.

III. Such advanced lectures as may from time to time be necessary in order to illustrate the bearing of any part of the practical work on Comparative Embryology.

Competent workers will be given facilities for carrying out special researches.

The Laboratory will be open from 9 A.M. till 3 P.M. except on Saturdays when the hour of closing is 12 noon.

II. PHYSIOLOGY.

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839, under the name of Theory of Physic. It was subsequently known as Institutes of Medicine, and is now, in accordance with Ordinance No. 31 of date 5th June, 1893, designated Physiology.

Professors.

1839. Andrew Buchanan, M.D.

1876. JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.,
F.R.S.E., F.R.C.P.E.

Muirhead Demonstrator.

Walter Colquhoun, M.A., M.B., C.M.

Second Assistant.

George H. Clark, M.B., Ch.B., D.P.H.

SYSTEMATIC LECTURES.

The Lectures of this course are delivered daily at 12 noon during the winter session. They are devoted to an exposition of the main principles and facts of the Physiology of Man.

1. *General Physiology*, which includes a description of the functions of the various tissues, and of the chemical reactions which occur in the living body.

2. *Special Physiology*, or the functions of organs and systems of organs. This division of the subject includes (1) nutrition, (2) animal movements, (3) innervation, and (4) reproduction.

Examinations are held during the session.

PRACTICAL PHYSIOLOGY.

During the *summer session* Practical Instruction is given in the Laboratory by the Professor, the Muirhead Demonstrator, and Assistants, to classes of not more than thirty-five students in each class, at such hour or hours as may be found convenient. The hours usually selected are 8 to 9 A.M. and 12 noon to 1 P.M. daily, except Saturday. This course includes :—(1) Instruction in the use of the microscope, and in the microscopical examination of the various tissues with the aid of modern methods of hardening, staining, cutting, and mounting preparations. (2) The analysis of the principal fluids of the body, with special reference to the physiological processes by which they are produced. Students will have the opportunity of acquiring information which cannot readily be communicated in systematic lectures.

ADVANCED CLASS OF PRACTICAL PHYSIOLOGY.

This Class is intended to meet the requirements of candidates for the Degree of B.Sc. It will meet during the winter session at a suitable hour, on two or three days weekly, and the course will comprise fifty meetings each of at least two hours duration. Students will be taught (*a*) the more advanced methods of Physiological Chemistry, (*b*) special methods in advanced Histology, and (*c*) the use of physiological apparatus, the experimental investigation of the properties of muscle and nerve, the physics of the circulation, and the physiology of the senses. This course is wholly practical, and is designed to supplement the instruction given in the ordinary class of Practical Physiology, and to lead the student into the higher departments of physiological science.

The Laboratory.

The Laboratory is open daily from 10 A.M. to 4 P.M., under the superintendence of the Professor, to whom application should be made by those who may wish to pursue original investigation. It is furnished with the most modern appliances both for research and for the illustration of Lectures on Physiology.

Text-books.

For the Systematic and Practical Classes—*Text-book of Physiology*, 2 vols., by Dr. M'Kendrick.

As to the Muirhead Demonstratorship of Physiology, see p. 143.

III. MATERIA MEDICA.

A Lectureship on this branch was founded by the College in 1766, and a Professorship created by the Crown in 1831.

Lecturers.

1766. William Irvine, M.D.	1788. Robert Cleghorn, M.D.
1787. Thomas C. Hope, M.D.	1791. Richard Millar, M.D.

Professors.

1831. Richard Millar, M.D.	1865. John B. Cowan, M.D.
1833. John Couper, M.D.	1880. Matthew Charteris, M.D.
1855. John A. Easton, M.D.	1897. RALPH STOCKMAN, M.D.

In the courses of instruction and in the scheme of professional examinations prescribed by Ordinance No. 14, the subjects included in the province of this chair comprise the two branches of *Materia Medica* and *Therapeutics*. In the summer course of *Practical Pharmacy*, which it is advisable to take before the winter course, attendance at twenty-five meetings of the class is required. Instruction is given in compounding official preparations, in writing prescriptions, and in dispensing, supplemented by demonstrations of the more important substances in the *British Pharmacopœia*. The winter course is devoted to *Pharmacology* and *Therapeutics*, the official drugs of the *British Pharmacopœia* being systematically considered in relation to their actions and applications in disease. In addition, lectures are given on the therapeutical aspects of *Dietetics*, *Mineral Waters* and *Baths*, *Climate*, *Electricity*, *Massage*, etc.

Text-books.—The manuals on *Materia Medica* and *Therapeutics* by Dr. Hale White, Dr. Mitchell Bruce, Dr. Whitla,

or Dr. Lauder Brunton; *Practice of Medicine*, by Dr. M. Charteris; *Dictionary of Treatment*, by Dr. Whitla. More advanced books are: *Therapeutics*, by Dr. H. C. Wood; *Text-book of Pharmacology and Therapeutics*, edited by Dr. Hale White; and *Text-book of Pharmacology*, by Dr. A. R. Cushny.

C. The subjects of the *Third Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

I. PATHOLOGY.

This Chair was founded by Ordinance No. 29 of the Universities Commission (1889) of date 5th June, 1893. The patronage is vested in seven Curators, of whom four are nominated by the University Court and three by the Directors of the Western Infirmary. By agreement with the Western Infirmary, full accommodation and facilities for teaching are provided for the University in the Pathological Institute recently erected at the Western Infirmary. By mutual arrangement the Professor is the Pathologist to the Infirmary, and the whole material of that institution is available for teaching purposes.

Before the founding of the Chair, Pathology had been taught by Dr. Joseph Coats, who was appointed Lecturer in 1890, and who also held the office of Pathologist to the Western Infirmary.

Professors.

1894. Joseph Coats, M.D.

1899. ROBERT MUIR, M.A., M.D.

First Assistant (with special reference to Bacteriology).

Alex. R. Ferguson, M.D., C.M.

Second Assistant.

John Hammond Teacher, M.A., M.D.

The course in Pathology and Practical Pathology extends over a summer and winter session. Students are requested to observe that the course starts in summer, and are recommended not to commence their pathological studies in winter. Formerly there was a course of practical pathology in summer, and a course of systematic pathology in winter, but now, although the summer course is chiefly occupied with practical work, the

practical and theoretical aspects of the subject are treated concurrently.

In the summer session the class meets for two hours on four days each week. About fifteen lectures of an hour each are given on those subjects of General Pathology which can be conveniently illustrated by histological work, *e.g.* the degenerations, inflammation, the processes of repair, tumours, etc., and the students thereafter prepare and examine sections of tissue illustrating the subjects of the lectures. The Special Pathology of one or two systems, *e.g.* the circulatory and respiratory are treated in a corresponding manner. Demonstrations of Pathological Anatomy are also given. The methods of Bacteriology are taught in small classes of about twenty students.

In the winter session the class meets for an hour daily. There will be (*a*) lectures with demonstrations on general pathology, including the disturbances of the circulation, the general pathology of infection, fevers, etc., (*b*) lecture demonstrations on Tuesdays and Fridays on special pathology. Students who have already attended a full course in pathology may attend these on payment of a fee of £1 1s. (*c*) Meetings for practical work in special histology and bacteriology. Of these there will be about thirty. Tutorial classes are also held during the Session.

The Museum of the Western Infirmary is open to all Infirmary students, and a printed catalogue is provided. The post-mortem examinations, which are conducted from 10 A.M. onwards, are also open to the students. Each student during his curriculum must attend at least twenty post-mortems, and must produce evidence that he has received instruction in the methods of post-mortem examination.

Post-graduate or Laboratory Courses in Practical Pathology and Bacteriology are held in October. These courses are open also to senior students. Particulars may be obtained from the Professor.

Text-books.—A *Manual of Pathology* by Dr. Joseph Coats, or a *Text-book of Pathology*, by Hektoen and Riesman; *Practical Pathology* by Dr. G. Sims Woodhead; and a *Manual of Bacteriology* by Drs. Muir and Ritchie.

The following works are also recommended: Cohnheim's *Lectures on General Pathology*, Thoma's *Handbook of General Pathology*, and Metchnikoff's *Comparative Pathology of Inflammation*.

II. FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

Professors.

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.
 1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.
 1898. JOHN GLAISTER, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This class will meet daily from 11 to 12 during the summer session.

The Lectures on Forensic Medicine will, as far as possible, elucidate the application of every branch of Medical Science to the purposes of the law.

In the department of Public Health special attention will be given to the subjects of Air, Ventilation and Heating, Water, Injurious Trades, Law respecting Infectious Diseases, Disinfection, Disposal of Sewage and Refuse, and Sanitation in general.

During the session students will have an opportunity of visiting, along with the Professor or his assistant, the most important public institutions and works in the district dealing with Disposal of Sewage and Refuse, Disinfection, Ventilation, etc.

Demonstrations, macroscopic and microscopic, will be given frequently during the session, illustrating, as far as possible, the whole range of Forensic Medicine and Public Health.

Written and oral examinations (attendance on which is compulsory) will be held at intervals.

In addition, facilities will be given for studying Practical Toxicology in the Medico-Legal Laboratory at the University.

Text-books (for Class of Medical Jurisprudence and Public Health).—Guy and Ferriér, *Principles of Forensic Medicine*; Dixon Mann, *Manual of Medical Jurisprudence*; Hofmann, *Atlas of Legal Medicine* (English edition, 1898); Glaister, *Text-book of Forensic Medicine, Toxicology, and Public Health*, 1902; Glaister, *Manual of Public Health for Students*, etc.

PUBLIC HEALTH.

This class will meet four days weekly during the winter session at 12 noon. The lectures will deal with the Sanitation of Dwellings, Medicine in its relation to Public Health, Vital Statistics and Statistical methods, Sanitary Law, etc. (see Ordinance for Degrees in Public Health,

p. 233). The subjects under consideration will, as far as possible, be illustrated by demonstrations, visits to public institutions and public health works in Glasgow and neighbourhood, and by other means. The number of meetings of the class is seventy-five. The class is open, after matriculation and payment of the class fee, to Candidates for the Diplomas in Public Health of the Universities of Cambridge, Oxford, and Durham, of the English, Scottish, and Irish Colleges. According to the Regulations of the General Medical Council, attendance thereat will be accepted in lieu of the second three months' attendance at the office of a recognised Medical Officer of Health for Practical Sanitation.

LABORATORY INSTRUCTION IN PUBLIC HEALTH.—The Public Health Laboratory is under the personal supervision of Professor Glaister and his assistant, and is open at hours arranged to suit Classes, for practical instruction in the methods of analysis of air, water, soils, foods, and the detection of adulterations; and instruction in practical meteorology, sanitary appliances, physics, and bacteriology, in relation to public health.

Air.—Estimation of carbonic acid, by Pettenkofer's and other methods; detection and examination of gaseous impurities; estimation of organic impurity by ammonia and Carnelly's process; microscopic examination of matters in suspension; estimation of humidity, dew-point, and tension of vapour.

Water.—Qualitative and quantitative analysis; microscopical examination of sediments; physical and biological examination; comparison and estimation of value of filtering media and filters; mineral and medicinal waters.

Sewage.—Effects of purification processes; analysis of raw sewage and sewage effluents.

Soils.—Chemical and physical examination.

Foods.—Analysis and detection of adulterants; microscopic examination of food-stuffs; physical, microscopical and chemical examination of milk; analysis of milk, cream, butter, cheese, and oils used as foods; microscopical examination and chemical analysis of starchy foods, sugars, tea, coffee, cocoa, pepper, etc.; examination of preserved foods and detection of their adulterations.

Disinfectants.—Their valuation and comparison; examination of pigments in articles of attire, wall-papers, and those used in trade.

Bacteriology.—Methods of investigation, cultivation, and transmission; preparation of culture media; bacteriological examination of air, water, foods, blood, earth, etc.; micro-photographic processes.

Microscopy.—Examination of food substances; parasites—animal and vegetable; crystalline deposits; micro-organisms.

Meteorological Instruments.—Barometer, thermometers, different kinds; rain gauges; anemometers and manometers; hygrometers, and their different forms.

The Laboratory is furnished with all the necessary chemical apparatus, etc., required for analysis, and each worker is furnished with a set of apparatus for personally doing the work, and for which he is held personally responsible.

There is a complete collection of model sanitary appliances, including traps, soil stacks; soil pipes; ventilators; meteorological instruments; and an abundant collection of drawings, diagrams, and illustrative tables.

The Laboratory also possesses a large collection of microscopic specimens illustrative of parasites—animal and vegetable, food characteristics, and of bacteriology.

Visits will be made, as arranged, during the Session, to view and inspect modes of disposal of refuse, sewage disposal, and unhealthy trades, etc.

The Laboratory instruction is recognized for the Diplomas in Public Health of the Triple Scotch Colleges, of the English Colleges, and of the Universities of Cambridge, Oxford, and Durham, under the new regulations.

Text-books (for Public Health Laboratory).—Lehmann, *Methods of Practical Hygiene* (English edition), 2 vols.; Kenwood, *Public Health Laboratory Work* (second edition); Hewlett, *Manual of Bacteriology*, 1898; Muir and Ritchie, *Manual of Bacteriology*, 1903; Slater and Spitta, *Atlas of Bacteriology*, 1898.

N.B.—(See under *Faculty of Law*, p. 127.)

D. The subjects of the *Final Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

I. SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

Professors.

- | | |
|---|--|
| 1815. John Burns, M.D. | 1860. Joseph Lister, M.B., F.R.S. |
| 1850. James A. Lawrie, M.D. | 1869. Sir George H. B. Macleod,
M.D., LL.D., F.R.S.E. |
| 1892. SIR WILLIAM MACEWEN, M.D., LL.D., F.R.S., Hon. F.R.C.S. | |

The Professor delivers during winter a course consisting of systematic lectures, illustrated by diagrams, casts, and pathological preparations, and of frequent demonstrations. There are three written examinations. The following is a general outline of the course:—Anaesthesia; wounds and their varieties; haemorrhage and its arrest; the phenomena of destruction and repair of tissues; inflammation; surgical bacteriology; infective processes and diseases dependent upon bacteria and their products; neoplasms; injuries, including fractures and dislocations; Regional Surgery.

During summer Operative Surgery is conducted daily, and consists of descriptive instruction by the Professor in the principal operations, and the performance of recognised operations by the students under supervision.

In the course of Clinical Surgery which the Professor conducts both winter and summer at the Western Infirmary, as part of the regular Clinical Instruction given to University students, practical instruction is given in the methods of clinical observation, surgical diagnosis and treatment. The Professor also takes occasion, as far as the material is available, to draw the attention of the students to the points illustrative of the principles taught in the systematic course.

II. CLINICAL SURGERY.

This Professorship was founded by the University in May 1874. The Professor is appointed by the University Court.

Professors.

1874. George Buchanan, M.A., M.D., LL.D.
1900. SIR HECTOR C. CAMERON, M.D., C.M.

Assistant.

Alfred A. Young, M.A., M.B., C.M.

The Professor teaches Clinical Surgery by "Lectures and other instruction" on the cases of patients affected with injuries, diseases, etc., requiring Surgical treatment.

The class meets daily at 9 A.M., both in the summer and winter session, in the Western Infirmary—Wards XIII., and XIX.; and in the Overtoun Theatre.

III. PRACTICE OF MEDICINE.

This Professorship, created in 1637, but long suppressed for want of revenue, was revived by the College in 1712, and endowed by Queen Anne in the following year. It is in the gift of the Crown.

Professors.

1714. John Johnstoun, M.D.	1827. Charles Badham, M.D.
1751. William Cullen, M.D.	1841. William Thomson, M.D.
1756. Robert Hamilton, M.D.	1852. John M'Farlane, M.D.
1757. Joseph Black, M.D.	1862. Sir W. T. Gairdner,
1766. Alex. Stevenson, M.D.	K.C.B., M.D., LL.D., F.R.S.
1789. Thomas C. Hope, M.D.	1900. THOMAS M'CALL ANDER-
1796. Robert Freer, M.D.	SON, M.D.

The course is directed to the exposition of the Healing Art in its more practical aspects, having regard to the immensely wide range of diseases usually assigned to the physician and the general practitioner, as opposed to the surgeon and the specialist. The general principles and doctrines which are available at the bedside of the sick are each year carefully and thoroughly considered in connection with such a number and variety of illustrative instances as may be expected to leave a lasting and vivid impression of the essentials of Diagnosis, Prognosis, and Treatment, in so far as these can be advantageously delivered in the form of lectures guided by a systematic plan, conveying not only the opinions of the Professor, but also references to the general history of opinion, and the steps by which the existing knowledge of disease has been built up. Thus, a broad and sufficient basis is obtained for conveying an insight into what may now be regarded as settled medical doctrine, and also, as regards points which cannot be so considered, suggestions as to the direction in which we may reasonably look for guidance in the future. But no attempt is made to give a complete synopsis annually of the details of practice in all departments; for this, the student is of necessity referred to one or other of the current text-books. In summer there is a tutorial class twice a week, open, without fee, to those who have attended the Practice of Medicine class in the previous winter session.

The Professor conducts at the Western Infirmary, both in winter and in summer, part of the regular Clinical Instruction given to the Medical Students of the University. Tutorial Instruction is carried out by the University Assistants twice a week, and three written examinations are held in the course of the winter session. Medals and certificates of distinction are determined upon the basis of these examinations.

A portrait-medal of Sir William T. Gairdner, K.C.B., is awarded to the most distinguished student in the class of Practice of Medicine. The dies for this medal were presented to the University along with a Portrait of the Professor by his former students, on 28th January, 1893.

Text-books.—One of the following is recommended for general use:—Frederick Taylor's *Manual of the Practice of Medicine*, or Osler's *Principles and Practice of Medicine*; Hilton Fagge's *Principles and Practice of Medicine* is a larger work of great excellence, specially adapted for senior students. Finlayson's *Clinical Manual* is in very general use for hospital work, and Dr. Anderson's *Contributions to Clinical Medicine* may be consulted.

IV. CLINICAL MEDICINE.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

Professors.

1874. Thomas M'Call Anderson, M.D.

1900. SAMSON GEMMELL, M.D.

Assistant.

James C. M'Clure, M.B., C.M.

The class meets five days a week during the winter and summer sessions, and three or four written examinations are held. On Mondays and Thursdays the Professor gives demonstrations of cases in the wards; and on Wednesdays there is a clinical lecture in the theatre on cases under observation. The clinical tutors meet the class (in sections) on Tuesdays and Fridays for instruction in the investigation of cases and in the use of instruments and apparatus. A ward visit is made by the Professor every day at the close of the regular instruction.

V. MIDWIFERY.

This subject was originally taught as part of the course in Anatomy, but in 1790 the Faculty of the College appointed Mr. James Towers to be Lecturer in Midwifery, and in 1792 assigned him a salary out of the Walton Fund. In 1815 the Chair was founded by George III., and Mr. Towers became the first Professor. The Crown is the Patron.

Professors.

1815. James Towers, C.M.	1834. William Cummin, M.D.
1820. John Towers, C.M.	1840. John M. Pagan, M.D.
1833. Robert Lee, M.D.	1868. William Leishman, M.D.
1894. MURDOCH CAMERON, M.D.	

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Children. The Professor was Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the neighbourhood of the old College. The altered circumstances of the school having, however, rendered this situation unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. Ample opportunity is afforded for Clinical instruction in Midwifery at the Glasgow Maternity Hospital, to which the Professor holds the appointment of Consulting Physician.

A course of lectures on the Diseases of Women is delivered in summer.

E. Candidates for the Degrees of Bachelor of Medicine and Bachelor of Surgery are required also to attend the following courses :—

I. INSANITY.

This Lectureship was instituted by the University in 1880. Great advantages are offered to students for the study of this subject, the Lecturer being Consulting Physician to the Royal Lunatic Asylum, Gartnavel.

Lecturer.

1880. DAVID YELLOWLEES, M.D., LL.D.

A course of Lectures is given in the University at 12 noon on Wednesdays during the summer session, and Clinical Instruction at the Asylum, Gartnavel, at 10 A.M. on Saturdays.

For the Mackintosh Mental Science Bursary in connection with this class see "Bursaries."

II. OPHTHALMOLOGY.

The practical course of instruction in Ophthalmology must consist of not less than twenty meetings, of which six may be class-room lectures, and the others shall be for clinical instruction. Such courses are available in the Glasgow Eye Infirmary (174 Berkeley Street and 80 Charlotte Street), and in the Glasgow Ophthalmic Institution (126 West Regent Street). In the Berkeley Street branch of the Eye Infirmary attendance is given daily at 1 P.M. and students may attend twice a week the lectures and the clinique of any of the three surgeons. The same rule holds in the Charlotte Street branch. At the Ophthalmic Institution lectures are delivered during the summer session every Monday at 4 P.M., and practical instruction is given on Tuesday and Friday at 2 P.M. In the case of women students lectures are delivered in the summer session by Dr. A. Maitland Ramsay, in Queen Margaret College every Tuesday and Friday at 4 P.M., and practical instruction is given at the Ophthalmic Institution every Monday and Thursday at 2 P.M.

III. FEVERS.

The course of Clinical Instruction in Fevers must consist of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds. Such instruction is given in the City of Glasgow Fever Hospital, Belvidere. Each student must, before commencing attendance at the Hospital, obtain at the office of Mr. James D. Borthwick, Treasurer, Police Department, 285 George Street, an admission card—Fee, £1 1s.

F. Candidates for the Degrees of Bachelor of Medicine and Bachelor of Surgery are also recommended to attend the following courses:—

I. DISEASES OF THE EAR.

This Lectureship was instituted by the University Court in 1895.

Lecturer.

1895. THOMAS BARR, M.D.

Short courses on Diseases of the Ear are conducted in both winter and summer. They are of a practical character, and arrangements are made so that each student who takes the course may, in accordance with the recommendation of the Senate under Ordinance No. 14, Section VII., 10 B, attend at least ten meetings for practical instruction. At these meetings the students are taught how to examine and treat Ear Disease, while illustrative cases are regularly demonstrated. In connection with each course a certain number of lectures are delivered in the University on Mondays at 4 P.M. The practical work is carried on at the Glasgow Ear Hospital or Western Infirmary on days and hours to suit the convenience of students. As it is not considered desirable that there should be an elaborate or complete course of systematic lectures on this subject, it is understood that a suitable book on Diseases of the Ear should be studied by the student while attending the practical course. It will be arranged that those who are desirous of pursuing the subject further may receive more advanced practical instruction in a second course.

Prizes will be awarded to the most proficient students as tested by clinical examination.

Text-book.—*Manual of Diseases of the Ear* (3rd Edition, 1901), by Thomas Barr, M.D.

II. DISEASES OF THE THROAT AND NOSE.

This Lectureship was instituted by the University Court in 1895.

Lecturer.

1895. JAMES WALKER DOWNIE, M.B., F.F.P. and S.G.

The course of instruction on Diseases of the Throat and Nose is clinical in character, and is conducted in conformity with the recommendation of the Senate under Ordinance No. 14, Section VII., Sub-section 10 B, according to which candidates for graduation in Medicine are recommended to attend a short practical course of ten meetings on this subject. To permit of the necessary sub-division of the class for pur-

poses of practical instruction there is a winter and a summer course, each having about the same number of meetings.

At the beginning of each session, the class meets as a whole at the University on Thursdays at 4 p.m. There the methods of examining the throat and nose, and the apparatus necessary for this purpose, are described and explained: the appearance of the parts in health and as altered by diseases is described, as are also the means of treatment, etc.

The class is then divided into sections for practical instruction. These sectional meetings are held at the Western Infirmary (Throat and Nose Department)—one section on Tuesdays, another on Fridays, at 4 p.m. At these meetings each student is afforded every facility for examining the various patients for himself under the supervision of the Lecturer.

In the Lectures at the University fuller instruction than can be communicated in the presence of the patient regarding pathological conditions seen at the Infirmary is given, and these lectures are illustrated by casts, coloured and photographic diagrams, instruments, anatomical and pathological specimens. While regular attendance on the practical instruction at the Infirmary is necessary to obtain a certificate, all members of the class are strongly recommended to attend the meetings at the University.

Text-books.—*Clinical Manual of Diseases of the Throat*, by J. Walker Downie, M.B.; *A Handbook of Diseases of the Nose*, by James B. Ball, M.D.

III. DISEASES OF THE SKIN.

The course of instruction on Diseases of the Skin at the Hospital for Skin Diseases is of a thoroughly practical character, and is conducted by Professor McCall Anderson during the summer session. Arrangements have been made to supply short practical courses in accordance with the recommendation of the Senate under Ordinance No. 14, Section VII., Sub-section 10. The course commences on Monday, 24th April, 1905.

IV. DISEASES OF CHILDREN.

Arrangements will be made for enabling students to carry out the recommendation of the Senate, that each candidate for Degrees in Medicine should attend a short practical course on this subject.

IV.—FACULTY OF LAW.

The Faculty of Law embraces the Chairs of Law and Conveyancing, and also the Chairs of Forensic Medicine and Political Economy. In this Faculty there are also Lectureships on Civil or Roman Law, Constitutional Law and History, Jurisprudence, Public International Law, International Private Law, and Mercantile Law.

For the information of students proposing to enter the legal profession, whether as Advocates or as Law Agents, it may be stated that by the regulations of the Faculty of Advocates, every intrant to the Faculty is required to produce evidence of being duly qualified (1) in General Scholarship, and (2) in Law. In General Scholarship the possession of any one of certain University degrees, including the degree of M.A. from a Scottish University, is deemed a sufficient qualification. If the intrant does not hold a qualifying degree he is required to undergo an examination in certain specified branches of General Scholarship, as to which information may be obtained on application to the Clerk of Intrants to the Faculty. On the expiration of a year after the intrant has been found qualified in General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance, such as is required for admission to examination for a Law degree, in a class of Scots Law and a class of Conveyancing, in a Scottish University, and evidence of the like attendance in a class of (*a*) Civil Law, (*b*) Philosophy of Law and International Law, Public or Private, (*c*) Constitutional Law and History in a Scottish University, or such attendance in another University or School of Law as may seem to the Dean and his Council to be equivalent thereto, and (*d*) Medical Jurisprudence, in a University, or in a School recognised as qualifying for University Degrees. On the production by the intrant of evidence of his having attended the necessary classes (which he may attend in any order he thinks fit), he is examined on (1) Civil Law, (2) Philosophy of Law and International Law, Public or Private,

(3) Constitutional Law and History, (4) Medical Jurisprudence, (5) Scots Law, Civil and Criminal, including Procedure, (6) Conveyancing. Information as to the books prescribed may be obtained from the Clerk of Intrants. If, however, the intrant has obtained the degree of LL.B. from a Scottish University after examination in all the subjects above prescribed for examination in Law, and also produces evidence that he has passed an examination in Procedure, he is held qualified in General Scholarship and Law without examination or other evidence of qualification, subject to the conditions that during the year immediately before presenting his diploma to the Examiners, he shall not have been engaged in any trade, business, or profession, as above set forth, and that he shall have duly presented his petition for admission and appeared before the Examiners prior to the commencement of such year. If the intrant has obtained said degree of LL.B. after passing examinations in one or more of the said subjects he is exempt from examination in these subjects. He must pass in at least two of the subjects at one time. The regulations regarding the "Public Examination," which all intrants, whether graduates or not, must undergo, require that the intrant shall write a Thesis on a Title of the Pandects assigned to him by the Dean, and shall defend it on its being impugned. The question as to the intrant's admission is then decided by the Faculty voting by ballot.

Admission to the profession of a Law Agent is regulated by the Law Agents Act, 1873, and by the Law Agents and Notaries Public Act, 1891, and relative Acts of Sederunt of the Court of Session, prescribing rules as to subjects of examination and certain conditions of admission. The former Act requires in general that every applicant for admission must have served an apprenticeship of five years with a practising law-agent or with a sheriff-clerk in office at the passing of the Act, which apprenticeship, if entered upon after the passing of the Act, must be served under indenture, recorded and intimated as the Act requires. In certain cases, however, an apprenticeship for three years is allowed as sufficient, the excepted cases including that of a person holding a degree in Law or in Arts of a University in Great Britain or Ireland granted after examination.

The Act of Sederunt of 18th March, 1893, institutes

two examinations in General Knowledge, and prescribes the subjects of these examinations and of the examination in Law. By the Act of Sederunt of 21st November, 1902, in any subject to which the certificates or passes apply a Higher or Lower Grade Leaving Certificate issued prior to 1st June, 1902, or a Leaving Certificate or an Intermediate Certificate issued subsequent to that date, or a Pass in either Higher or Lower Grade granted as a step towards a Leaving Certificate, exempts from the first examination in General Knowledge; and a Higher Grade Leaving Certificate issued prior to 1st June, 1902, or a Leaving Certificate issued subsequent to that date, so far as obtained by passing on the Higher Grade, or a Pass in the Higher Grade granted as a step towards a Leaving Certificate, exempts from the second examination. Higher or Lower Certificates of the Oxford and Cambridge Schools Examination Board afford similar exemptions to Higher or Lower Grade Leaving Certificates. Higher Standard Certificates in the Preliminary Examination for M.A. under Ordinance No. 11 exempt from both of these examinations, but an examination in Book-keeping must be passed. A Lower Standard Certificate in the Preliminary Examination for M.A. under Ordinance No. 11 exempts from the first examination in General Knowledge in any subject to which that Certificate applies, and a Higher Standard Certificate exempts similarly from the second examination in General Knowledge. Certificates entitling to exemption from the first examination must be presented to the Clerk of the Board of Examiners of Law Agents before the commencement of apprenticeship. A candidate for admission as Law Agent is exempted from any examination in General Knowledge, including book-keeping, if (*inter alia*) he hold a Degree of any University in the United Kingdom granted after examination. By Act of Sederunt, 18th March, 1893, a candidate who holds the degree of LL.B. or B.L. of any Scottish University is exempted from any examination in Law, excepting only on Forms of Process, Civil and Criminal.

The Act of Sederunt dated 11th July, 1899, provides *inter alia*:—(1) The first examination in general knowledge shall be taken before the commencement of apprenticeship, and no person shall be admitted as apprentice under indenture

to a Law Agent until he shall have passed the said first examination. (2) The second examination in general knowledge may be taken at any time after the candidate has passed the first examination. (3) A candidate who fails to pass the first or second examination may again offer himself for examination, and shall be re-examined in all the subjects, or such part thereof as the examiners may determine. It shall be in the power of the examiners to fix a time before which a candidate who has failed to pass any examination shall not present himself again for examination. (4) No candidate shall be examined in Law until he has passed the second examination in General Knowledge.

For Regulations as to Graduation in Law, see Index.

LAW.

This Professorship is in the gift of the Crown. After being long in abeyance for want of revenue, it was revived by the College in 1712, and endowed by Queen Anne in the following year.

Professors.

1714. Wm. Forbes, Advocate.	1842. Allan A. Maconochie,
1746. Wm. Cross, Advocate.	Advocate.
1750. Hercules Lindsay, LL.D.	1855. Geo. Skene, Advocate.
1761. John Millar, Advocate.	1867. Robert Berry, M.A.,
1801. R. Davidson, Advocate.	LL.D., Advocate.
1887. ALEXANDER MOODY STUART, LL.D., Advocate.	

SCOTS LAW.¹—The course extends to about 100 Lectures, embracing as full a course of Scots Law in each session as the time will permit, and including, so far as practicable, Lectures on the following subjects:—Sources and Development of the Law of Scotland; the Law of Contracts and Obligations generally, their Constitution and Extinction, Legality and Illegality; the Law of Sale; Stoppage *in transitu*; Retention and Lien; Loan; Deposit; Pledge; Hiring, and the Law of Master and Servant; Law of Carriers and Affreightment; Mandate; Partnership; Bills of Exchange; Cautionary Obligations; Law of Heritage; Servitudes; Prescription as applicable to Heritage; Law of Landlord and Tenant; Succession in Heritage and Moveables,

¹ Students taking the curriculum for Graduation in Law are strongly recommended to take the Classes of Civil, Scots Law, and Conveyancing in separate sessions, and to take them in this order.

Testate and Intestate; Marriage and Divorce, and the Rights of Husband and Wife; Law of Parent and Child; Guardian and Ward; Actions and Evidence; Diligence and Bankruptcy; Criminal Law, etc.

The text-books recommended to Students are Bell's *Principles of the Law of Scotland* and Erskine's *Principles of the Law of Scotland* (late editions).

The class meets five days a week—viz., every day except Monday, from 8 to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary class examinations, which are conducted in writing.

Three Prizes are given by the University for proficiency in the class examinations; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Conveyancing. Prizes are also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

CONVEYANCING.¹

This Chair was instituted by ordinance of the Universities Commission (1858) of date 15th June, 1861, which was approved by Her Majesty Queen Victoria in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

Professors.

1862. Anderson Kirkwood, LL.D.

1867. Sir James Roberton, LL.D.

1889. JAMES MOIR, LL.D., Member of the Faculty of Procurators, Glasgow.

The course extends to about 100 Lectures, and during the session there are both oral and written examinations. As full a course of Conveyancing is given each session as the time permits. The subjects treated will be selected from the following list, viz.: (1) Introductory and Preliminary Lectures. (2) The Feudal and Burgage System, the constitution of Feudal and Burgage Rights, and the transmission thereof by Deeds *inter vivos*, or by Judicial Acts. (3) Heritable Securities. (4)

¹See note at foot of page 125.

Leases. (5) Marriage Contracts, Bonds of Provision, Testamentary Deeds and Deeds of Entail. (6) The completion of Titles, in case of death, to Heritable and Moveable Estate.

The class meets every day, except Monday, from 8 to 9 A.M.

The text-books recommended are Duff's *Feudal Rights*, with Supplement; *Lectures on Conveyancing*, by Menzies; *Lectures on Conveyancing*, by A. M. Bell; and Craigie's *Statutes*.

Prizes are given for eminence in the class examinations during the session. Prizes are also given by the Faculty of Procurators for distinction in a written examination held towards the end of the session on some of the subjects of the course; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Scots Law.

FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

Professors.

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.

1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.

1898. JOHN GLAISTER, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This course, qualifying for graduation in Law (B.L. and LL.B.), will be delivered during the winter session at 9 A.M., after the Christmas vacation.

Text-books.—Guy and Ferrier, *Principles of Forensic Medicine*; Dixon Mann, *Manual of Medical Jurisprudence*; Glaister, *Text-book of Forensic Medicine*, etc., 1902.

(See under Faculty of Medicine, p. 112.)

POLITICAL ECONOMY.

(See under Faculty of Arts, p. 79.)

CIVIL LAW.¹

The study of Civil Law in Glasgow is coeval with the establishment of the University. In the University Annals it is recorded that, in 1460, lectures on the Civil Law were delivered in the Chapter-House of the Friars Predicators by Master

¹ See note at foot of page 125.

William of Levenax (Lennox). After being for a considerable period in abeyance, the study of the subject was revived in 1712. In the middle of the eighteenth century the lectures were for the first time delivered in English; up to that time the prelections were in Latin. For some years during last century the lectures were once more in abeyance, but in session 1873-74 a class was again formed, and was taught in alternate sessions by the Professor of Law. In 1894 the University Court, carrying out a recommendation of the Universities Commission (1876), instituted a separate Lectureship in the subject.

Lecturer.

1895. J. M. IRVINE, LL.B., Advocate.

The course extends to eighty lectures. The first part of the course will deal with the Constitutional History of Rome and the history of the development of the law. This part is intended to serve as an introduction to the study of the special departments of the law. The latter part of the course will be devoted to a systematic exposition, in detail, of the various departments of the law, according to the order in which they are treated in Justinian's *Institutes*. The class meets four days a week during the winter session, from 5.30 to 6.30 P.M. Attendance at the class is required of all candidates for Degrees in Law (LL.B. and B.L.); it also qualifies for the Degree of M.A.

HONOURS IN ECONOMIC SCIENCE.—The lectures in the class of Civil Law up to Christmas, together with about twelve additional lectures given after Christmas separately from the ordinary course on Civil Law, constitute a half course on the History of Civil Law qualifying for the Degree of M.A. with Honours in Economic Science.¹ The additional lectures will deal with the history of Civil Law after the time of Justinian and with the influence of the Civil Law in the development of modern law and existing institutions.

Text-books.—*Institutes of Justinian*; Eds., Moyle or Sandars. Reference is also frequently made to *Institutes of Gaius*; Eds., Poste or Muirhead.

History of Civil Law.—The text-books recommended for students taking the half course in History of Civil Law are Ortolan, *Histoire de la Législation Romaine* (English translation by Cutler); Taylor, *Constitutional History of Rome* (Lond. 1899); Bury, *History of the Later Roman Empire* (Lond. 1889).

¹ See fifth note on p. 200.

CONSTITUTIONAL LAW AND HISTORY.

This Lectureship was instituted by the University in 1878, and the class was taught in alternate years during the summer session, the course extending to forty lectures. In 1894 the University Court, to meet the requirements of the Ordinances for Graduation in Law, placed the Lectureship upon a new footing. The course was extended to eighty lectures, and the class was made a Winter Class, meeting every year. In April, 1900, arrangements were made for extending the course to a hundred meetings for Arts students, and the extended course was recognized as a full course in Arts, qualifying for graduation for the ordinary Degree of M.A., and also for the Degree of M.A. with Honours in History. Attendance on the first eighty lectures of the course is required of all candidates for the Degree of Bachelor of Laws (LL.B.). Attendance on the first fifty lectures of the course qualifies for the Degree of B.L., subject to the conditions laid down in Ordinance No. 40.

Lecturers.

1878. Charles S. Dickson, M.A., Advocate.

1878. Alex. Ure, LL.B., Advocate.

1889. Robert T. Younger, LL.B., Advocate.

1894. WILLIAM S. M'KECHNIE, LL.B., D.Phil.

ORDINARY CLASS.—The course will be partly historical and partly analytical. The historical lectures will trace in outline the development of the Constitution from the Anglo-Saxon migrations to the present reign. The analytical lectures will treat (1) of the safeguards of the rights of individuals, and (2) of the separate parts of the Constitution and the distribution of power in the State.

The text-books recommended are those prescribed for the M.A., B.L., and LL.B. Degrees.

The hour for the meeting of the class is 4.30 P.M.

HONOURS CLASS.—(See under Faculty of Arts, p. 87.)

GENERAL OR COMPARATIVE JURISPRUDENCE.

This Lectureship was instituted by the University in 1893, under the title Philosophy of Law. The subject was at an early date treated as an integral part of the course of Moral

Philosophy, under the name of Natural Jurisprudence. From 1878 it was treated by the Lecturer on Public Law as introductory to that subject.

Lecturers.

1893. William Galbraith Miller, M.A., LL.B.

1904.

The course is given on Mondays and Thursdays during the winter session. The lectures for 1904-5 will be mainly devoted to (1) abstract jurisprudence—the ideas of person, property, cause, etc.; (2) some topic of Comparative Jurisprudence, such as the arrangement of the French, Indian, and German codes; the Land laws of different countries; or some particular crime or legal institution; and (3) the metaphysic of Law. Other subjects will be treated tutorially on the basis of a text-book, or in written exercises which are prescribed. The same course under the name of Philosophy of Law may in a special case be reckoned as a half course for the Degree of M.A. by candidates for honours in Economic Science (see p. 200).

The class meets at 4.30 p.m. in the Faculty Hall, St. George's Place.

Text-books.—(See subjects for Degrees in Law.) Reference is constantly made to the ordinary text-books in the other Law Classes, and to the Law Reports and Statutes in ordinary collections.

THE LAW OF NATIONS, OR PUBLIC INTERNATIONAL LAW.

In 1878 the University instituted a Lectureship on Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, created separate courses for International Private Law and for Jurisprudence.

Lecturers.

1878. William Galbraith Miller, M.A., LL.B.

1904.

The course is given on Mondays and Thursdays during the winter session. The course for 1904-5 will be doctrinal, dealing principally with the subjects of Nationality, and the relations of States in time of Peace. Written exercises are prescribed regularly.

Students are expected to be acquainted with the elements of the Civil Law, and to have a general acquaintance with Modern European History. *Text-book.*—Hall's *International Law*.

The class meets at 5.30 p.m. in the Faculty Hall, St. George's Place.

INTERNATIONAL PRIVATE LAW.

From 1878 this subject was treated as part of the course of Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, instituted a Lectureship on International Private Law.

Lecturers.

1894. William Galbraith Miller, M.A., LL.B.

1904.

This course is given in the summer session. The lectures discuss the principal doctrines as developed in the decisions of the British Courts compared with the results of Continental Jurisprudence. The subjects comprise History, General Principles, Comity, Public Interest, Nationality and Domicil; and in different sessions some of the following in detail: (1) Marriage, Divorce, Guardianship, and Family Law; (2) Contract, Delict, and Mercantile Law, including Bankruptcy; (3) Succession and Trust Law, Conveyancing and Heritable Rights; (4) Copyright, Trademarks, etc.; (5) Procedure and Evidence; (6) Criminal Law and Extradition; the other subjects being sketched in outline. For purposes of comparison and illustration reference is made to the collections of foreign codes, and to the *Journal de droit international privé*, edited by M. Clunet, all of which will be found in the Library of the Faculty of Procurators. Students are expected to be familiar with the leading doctrines of the Civil Law and of Scots Law. The class meets at 5.30 p.m. in the Faculty Hall, St. George's Place.

Text-book.—Rattigan, *Private International Law*. Students are expected to study the Statutes referred to, and certain leading cases prescribed, of which useful collections will be found in Nelson's *Private International Law*, Campbell's *Ruling Cases* (Domicil and Conflict of Laws), Beale's *Cases on the Conflict of Laws*.

MERCANTILE LAW.

This Lectureship was instituted by the University in 1894.

Lecturers.

1894. James Mackenzie, Member of the Faculty of Procurators, Glasgow.

1900. WILLIAM SHAW, Member of the Faculty of Procurators, Glasgow.

This course will extend to eighty lectures, and will embrace for the first half course the following subjects:—The Law of Contracts, including Retention, Pledge, the Factors Acts, Loan, Bankruptcy and Sequestration, Judicial Factors, Bills of Exchange, and Banking. The second half course will include the Law of Partnership, Joint Stock Companies; Maritime Law, including Affreightment, Lien, and Average; Marine, Fire, Life, and Accident Insurance, and the Law relating to Trade Marks and Patents. Attendance on the whole course may, subject to the conditions laid down in Ordinance No. 39, be reckoned as qualifying for the Degree of LL.B.; and attendance on forty lectures, constituting a half course, may, subject to the conditions laid down in Ordinance No. 40, be reckoned as qualifying for the Degree of B.L. The principal subjects in the first half course have been prepared with special reference to the requirements of students intending to follow the profession of Accountants or Bankers. The class meets at 5.30 P.M.

FACULTY OF THEOLOGY.

The Faculty of Theology embraces the four classes of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Divinity and Biblical Criticism.

The following regulations are applicable to students preparing for the ministry of the Church of Scotland. Under the Act of General Assembly, 1883, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Hall either three full and regular sessions, or two full and regular sessions and three partial sessions; and to give at least two full sessions

of regular attendance on the classes of Church History, Hebrew, and Biblical Criticism.

The following conspectus shows the order in which the classes should be taken :

FIRST YEAR.

9 a.m.,	Mon., Wed., Fri.,	- - -	New Testament Greek.
10 a.m.,	daily,	- - -	Hebrew.
11 a.m.,	daily,	- - -	Church History.
12 noon,	daily,	- - -	Divinity.

SECOND YEAR.

9 a.m.,	daily,	- - -	Hebrew.
10 a.m.,	daily,	- - -	Biblical Criticism.
11 a.m.,	daily,	- - -	Divinity.
12 noon,	Tu., Wed., Th.,	- - -	Honours Hebrew.

THIRD YEAR.

9 a.m.,	Mon., Wed., Fri.,	- - -	New Testament Greek.
10 a.m.,	daily,	- - -	Biblical Criticism.
11 a.m.,	daily,	- - -	Divinity.
12 noon,	daily,	- - -	Church History.

Each student, in order to be enrolled *for the first year* of his attendance, must present to the Professor of Divinity, *first*, a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined on his knowledge of the Holy Scriptures according to the authorized version, and of the Catechetical Standards of the Church; *secondly*, a certificate signed by the Convener or Vice-Convener of the Examining Board appointed by the General Assembly to conduct the examination of students previous to their entering the Divinity Hall.¹ In order to be

¹The following are the subjects of examination for October, 1904:—LATIN—Livy, Book XXIV.; Horace, *Odes*, Book III.; Prose Composition and translation of unseen passages. GREEK—Xenophon, *Memorabilia*, Book III. *St. John's Gospel*; translation of unseen passages. HEBREW—The Grammar Davidson's *Hebrew Grammar*, Sections 1–10. Genesis, Chapters I. and II., with grammatical questions limited to the sections in the Grammar prescribed. MATHEMATICS—Euclid, Books I., II., and III. Algebra to Quadratic Equations. NATURAL PHILOSOPHY—Descartes, *Philos.*, Part II. Lord Kelvin's *Elements of Lessons in Logic*. MORAL PHILOSOPHY—General account of Ethical Theories, Ancient and Modern, as in Muirhead, *Elements of Ethics* (University Extension Manual). ENGLISH LITERATURE—Morley's *First Sketch*, Chapter XIII. (In the Region of Victoria); Kingsley, *Literature*; Tennyson, *In Memoriam*. The examination at Glasgow will take place at the University on 5th and 6th October, 1904, at 10 A.M. each day. Forms of application will be supplied by the Convener, the Rev. Dr. Paul, 53 Fountainhall Road, Edinburgh.

admitted to this examination he must, in accordance with the Act of Assembly, 1896, produce, in addition to the certificate from the Presbytery recommending him, either (a) the diploma of a Master of Arts of a Scottish University, or the diploma of a Bachelor of Arts after an undergraduate course at any British or Irish University, or at any Colonial University at which the course is equivalent to that of a Scottish University, and which shall be approved by the General Assembly on a report from the Committee on the admission of ministers and the status of students of Divinity, or evidence that he has passed the examinations for, and is entitled to receive, such diploma of Master or Bachelor of Arts; or (b) evidence that he has passed the Preliminary Examination required of those proceeding to the Degree of Master of Arts in a Scottish University, or such examination as the University authorities recognize as equivalent thereto, and that he has attended some one of the courses required¹ for that degree, and has not only attended the classes of the course, but has duly performed the work of each of them. Students who produce certificates of having passed in any subject with a view to the degree of M.A. at a Scottish University, will be exempted from examination in that subject. All students—graduates as well as non-graduates—will be examined in New Testament Greek, and those whose certificates in their progress to a degree do not cover Greek, Latin, Moral Philosophy, and Hebrew will, in addition, be examined in any or all of those subjects not included. Students who began their course before 1897 will, if they intimate a desire to this effect, be examined in the subjects enumerated in the note at the foot of page 133.

The student, in order to his enrolment *for each subsequent session* of his course, is required to present to the Professor of Divinity a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as a certificate of his good moral character from the minister of his parish, or, during a vacancy in the parish, from the moderator of the kirk-session.

At the close of each session every student is required to take

¹ Any student who has gone through a curriculum in Arts in accordance with the provisions of Ordinance No. 11, but who has not graduated, may on application obtain, at the end of his course, a certificate to that effect at the Matriculation Office on production of his Preliminary Examination Certificate and the necessary Class-tickets duly signed.

with him to the Presbytery certificates from the several Professors, under whom he has studied, of his good conduct and proficiency.

Candidates for licence who have finished a regular course of study in Theology shall be examined as soon as it can conveniently be done after the close of the Divinity session by the Examining Board. "The following shall be the heads of subjects of examination :—(i.) Apologetics, including Natural Theology ; (ii.) Church History ; (iii.) Old Testament Introduction and Exegesis ; (iv.) New Testament Introduction and Exegesis ; (v.) Christian Doctrine." "Students who have passed for the Degree of B.D., and who satisfy the Committee that they have done so, shall be exempted from examination in the subjects covered by the Degree of B.D." The Exit Examination for 1905 will be held at the University in the last week of April. For information as to the special subjects of examination apply to the Convener of the Board, the Rev. David Paul, LL.D., 53 Fountainhall Road, Edinburgh.

Students are required to study the art of public reading and speaking under some competent teacher approved by the Faculty of Theology,¹ during at least one hour a week in each of two sessions, the attendance extending in every case over at least sixteen weeks of the session, and to produce, before being taken on trials, due evidence of such attendance.

By Act IX. of the General Assembly, 1895, it is enacted—"that every student before being taken on trial for licence shall produce evidence of having regularly attended two courses of the Pastoral Lectures provided by the Home Mission Committee."

Each student is required during his curriculum to deliver *six* discourses—viz., an ESSAY in English on some head in Divinity, a HOMILY in English, a CRITICAL EXERCISE on some portion of the original text of the Old Testament, an EXERCISE and ADDITION on some portion of the original text of the New Testament, a LECTURE on some portion of Scripture,

¹ For the purposes of the Act of Assembly, and to qualify for the competition for the Dowanhill Prizes, the following teachers are recognised :—Mr. Thomas Harrower, 282 Bath Street ; Mr. John Forsyth, 29 Rupert Street ; Mr. David B. Johnstone, A.M.S., 16 Burnbank Terrace ; Mr. Charles Aitken, Christian Institute, Bothwell Street ; Mr. J. Bruce Alston, 207 Bath Street ; and Mr. Archibald Paterson, 43 Dalhousie Street.

and a POPULAR SERMON, with such other exercises as the Professors may think fit to prescribe. No student can be taken on trials for licence by any Presbytery until he has produced, along with class certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Homily shall be given in to the Professor of Church History at such time as he shall appoint in the *first* session of the student's course; (2) that the English Essay shall be given in to the Professor of Divinity, and the Lecture to the Professor of Biblical Criticism, in the *second* year of the student's course, at such times as shall be appointed by these Professors respectively; and (3) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Oriental Languages, and the Exercise and Addition to the Professor of Biblical Criticism, in the *third* session of the course, at such times as shall be appointed by the several Professors. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

DIVINITY.

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court.

Professors.

1640-50. David Dickson.	1761. Robert Trail, D.D.
1642-61. Robert Baillie.	1775. James Baillie, D.D.
1653. John Young.	1778. William Wight, D.D.
1669. Gilbert Burnet, D.D.	1782. Robert Findlay, D.D.
1674. David Liddell.	1814. Stevenson Macgill, D.D.
1682. Alexander Ross, D.D.	1840. Alexander Hill, D.D.
1688. James Wemyss, D.D.	1862. John Caird, D.D.
1692. James Wodrow.	1873. William Purdie Dickson, D.D., LL.D.
1708. John Simson.	1895. William Hastie, D.D.
1740. Michael Potter.	
1744. William Leechman, D.D.	

1903. HENRY MARTYN BECKWITH REID, D.D.

The course of Theology extends over three sessions.

The class meets on five days of the week, in two divisions, the Senior at 11 A.M. and the Junior at 12 o'clock.

The subjects treated in the Lectures during the three sessions are—(1) Theology as a Science (Theological Introduction and Encyclopaedia); (2) Philosophy of Religion; (3) Apologetics; (4) The Comparative History of Religions; (5) Biblical Theology; (6) Critical History of Christian Doctrines; (7) Systematic Theology (Dogmatics and Ethics). Essays and Discourses are prescribed to the students. Examinations on the studies of the class will be held at intervals during the session.

PASTORAL TRAINING.—By a recent arrangement six Lectures on this subject will be given by a Lecturer appointed by the General Assembly.

HEBREW AND SEMITIC LANGUAGES.

This Professorship was founded by Queen Anne, 1709, under the title Oriental Languages. It is now designated Hebrew and Semitic Languages, in accordance with Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court, and is a member not only of the Faculty of Divinity, but also, since 1893, of the Faculty of Arts.

Professors.

1709. Charles Morthland.	1761. Robert Trail, D.D.
1745. Alexander Dunlop, M.A.	1761. Patrick Cumin, LL.D.
1751. William Rouet.	1820. ¹ Gavin Gibb, D.D.
1753. George Muirhead.	1831. William Fleming, D.D.
1755. John Anderson, M.A.	1839. George Grey, D.D.
1757. James Buchanan, M.A.	1850. Duncan H. Weir, D.D.
1877. JAMES ROBERTSON, D.D.	

By Ordinance No. 11 of the Universities Commission (1889) "Hebrew" and "Arabic or Syriac" are now included among the departments of study for graduation in Arts, and "Semitic Languages" among those for graduation with Honours.

The existing regulations of the Church of Scotland require all students of Divinity to give attendance on Hebrew for two

¹ Dr. Gibb was assistant and successor to Dr. Cumin from 10th October, 1844.

sessions. The following are the arrangements for session 1904-5 :—

I.—*Junior Class (Hebrew)*, five days in the week at 10 A.M. (1) Davidson's *Introductory Hebrew Grammar*, with the Exercises ; (2) Readings from the easier books of Scripture ; (3) Lectures on Hebrew Archaeology.

II.—*Senior Class (Hebrew)*, five days in the week at 9 A.M. (1) Readings in the Hebrew Scriptures, particularly in the books prescribed for degrees of M.A. and B.D. ; (2) Exercises in Unpointed Text and Translations from English ; (3) Study of the Syntax and the Accents ; (4) Revisal and extended study of Grammar ; (5) Lectures on History and Introduction. All students enrolled in this class have the option of attending also the Honours Class, and are expected to do so at least two hours a week.

The Senior Hebrew is appointed as the qualifying class for graduation in Arts. Before attending the class for this purpose, students are required by the Ordinance No. 11, sect. iv., 3, to pass a preliminary examination in Hebrew "on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination." Students presenting themselves for this examination will be expected to know as much as is implied in the work of the Junior Hebrew Class, and will be examined in grammar, and in translation both from Hebrew into English and from English into Hebrew.

III.—*Honours Class (Hebrew)*: Tuesday, Wednesday, and Thursday, at 12 noon. Lectures on the History and Literature of the Hebrews ; Prelections and Expositions of some of the books prescribed for the degree examinations ; Readings in post-biblical Hebrew. Written exercises in Composition. History and comparison of the Semitic Languages.

IV.—For *Arabic Classes* see below.

A class for *Syriac* will also be formed, if students offer.

ARABIC LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University Court in 1902.

Lecturer—THOMAS H. WEIR, B.D.

I.—An Elementary Class meets three days a week in winter

and daily in summer at any hour which may be found suitable. The work includes study of the grammar with progressive written exercises, and translation from and into Arabic. Text-book: Socin's *Arabic Grammar*. If sufficient students offer, a special class will be formed for modern and conversational Arabic.

II. *Ordinary Class*.—This class qualifies for graduation in Arts, and may be taken either in one full course of one hundred meetings, or in two half courses, the second half being a continuation of the first. The subjects of study comprise Grammar and Syntax, selected surahs of the Koran, selections from classical historians and poets, and history of the Arabs and their literature. Text-books: Nallino's *Chrestomathia Qorani Arabica*; Brünnow's *Chrestomathie*; Noeldeke's *Delectus Veterum Carminum Arabicorum*; Sale's *Koran*.

III. *Honours Class*.—This class is intended for those who wish to graduate with honours in Semitic Languages. The subjects of study will be the Koran with commentary, the *Makamat* of Hariri, Arabic Grammar, selections from the early poets. Text-books: Baidawi's *Commentary*, Hariri's *Makamat*, *Majani 'l Adab*, vol. vi., *Al Fakhri* (Derenbourg's Edition), Wright's *Arabic Grammar*.

ECCLESIASTICAL HISTORY.

The Professorship of Ecclesiastical History was founded by George I., in the year 1716, but no appointment was made to the Chair till the year 1720. The Professor is appointed by the Crown.

Professors.

1721. William Anderson.	1841. Jas. Seaton Reid, D.D.
1752. William Rouet.	1851. Thos. T. Jackson, D.D.
1762. William Wight, D.D.	1874. William Lee, D.D.
1778. Hugh M'Leod, D.D.	1886. Robert Herbert Story,
1809 ¹ . William M'Turk, D.D.	D.D., LL.D.
1898. JAMES COOPER, D.D.	

The course extends over two sessions, and embraces two series of lectures as well as written examinations and essays. The

¹ Dr. M'Turk was assistant and successor to Dr. M'Leod from 6th March, 1797.

Junior and Senior Classes meet at separate hours, the Junior from 11 to 12 o'clock, the Senior from 12 to 1 o'clock.

The subjects treated in the Lectures during the two sessions will be :

I. JUNIOR CLASS.—The History of the Church Catholic from the Day of Pentecost to the close of the Fourth General Council. Books recommended—Mosheim, *Institutes of Ecclesiastical History* (edited by Stubbs); the *Church Histories* of Moeller, Kurtz, Neander, Gieseler, Schaff, and Canon Robertson (the parts covering the period above indicated); Harnack, *History of Dogma*; Eusebius, *Ecclesiastical History* (ed. Bright, Oxford, 1881; translation by M'Giffert); *The Teaching of the Twelve*; *The Apostolic Fathers* (ed. Lightfoot); The Library of Ante Nicene Fathers; Ramsay, *The Church in the Roman Empire, before A.D. 170*, and *S. Paul the Traveller and Roman Citizen*; Pullan, *History of Early Christianity*; Wordsworth, *The Ministry of Grace*; Puller, *The Primitive Saints and the See of Rome*; Rainy, *The Ancient Catholic Church*; Kelly, *A History of the Church of Christ*; Bright, *Waymarks of Church History* and *The Age of the Fathers*; Hefele, *History of the Church Councils*; Percival, *The Seven Oecumenical Councils* (the first Four); Newman, *Arians of the Fourth Century*; Gibbon, *The Decline and Fall of the Roman Empire* (ed. Bury); Hodgkin, *Italy and her Invaders*, vols. I. and II.

II. SENIOR CLASS.—(1) The History of the Church of Scotland; (2) The History of the Church of England; (3) Some Important Epochs in the History of the Church. (N.B.—The special subject taken up in Session 1904-5 will be The Ecclesiastical History of England, Scotland and Ireland from 1600 to 1660.)

Books recommended—Grub, Cunningham, or Stephen, on the Ecclesiastical History of Scotland; Skene's *Celtic Scotland*; Dowden, *The Celtic Church in Scotland*; Macgregor's *Saint Columba*; The Chronicles of the Picts and Scots; the series "The Historians of Scotland"; Joseph Robertson, *Statuta Ecclesiæ Scoticanæ*; John Knox, *History of the Reformation in Scotland* (ed. Lang; Spottiswood; Calderwood; Baillie; Wodrow; M'Crie, Knox; William Robertson, *History of Scotland*; Hume Brown, *History of Scotland and John Knox*; Andrew Lang, *History of Scotland*; W. L. Mathieson,

Politics and Religion in Scotland, 1550-1695; Spalding, *Memorials of the Trubles in Scotland*; Sprott, *Scottish Liturgies of the reign of James VI.*; Records of the Kirk of Scotland, 1638-1649 (ed. Peterkin); Guthry's *Memoirs*; Cant. l.c.; *Sermons at the Taking of the Covenant*; Charles I. (Works, vol. I.) *Papers between His Majesty and Mr. A. Henderson, 1649*; Haddan and Stubbs, *Councils of Great Britain and Ireland*; Bede, *Ecclesiastical History of England*; Fuller, *Church History of Britain*; Collier, *Ecclesiastical History of Great Britain*; Stubbs, *Constitutional History of England*; Hume, Lingard, Froude, and S. R. Gardiner, *Histories of England*; Wakeman, *History of the Church of England*; A History of the English Church, edited by Stephens and Hunt; Dixon, *History of the Church of England*; Burnet, *History of His own Time* (summary recapitulation), and *History of the Reformation*; Clarendon, *History of the Rebellion*; Laud, *Works*, (esp. vol. III. containing his *Diary and Trial*); Carlyle, *Letters and Speeches of Oliver Cromwell*, Morley, *Oliver Cromwell*; Neale, *History of the Puritans*; *Minutes of the Westminster Assembly* (ed. Mitchell); The Confession of Faith; The Westminster Directory (ed. Leishman); Isaak Walton, *Lives*; Bp. Mant, *History of the Church of Ireland from the Reformation to the Union*, Ball, *Reformed Church of Ireland*; Olden, *The Church of Ireland*; Killen, *Ecclesiastical History of Ireland*; Burnet, *Life of Bp. Bedell*; Elrington, *Life of Ussher* (Works, vol. I.); Miss Richson, *Ireland in the Seventeenth Century, Annals of the Four Masters*.

The following subjects have been prescribed for *Essays, which must be given in before Nov. 30th, 1905*: (1) The Epistle to Diognetus, with special reference to the writer's use of the Books of the New Testament. (2) The Seven Epistles of S. Ignatius (shorter recension): their witness to the Faith, and to the Holy Ministry. (3) Catena from Ante-Nicene Writers on the Virgin Birth of our Blessed LORD. (4) Pope Gregory the Great. (5) Church and State in the Roman Empire, from the Conversion of Constantine to the Death of Justinian. (6) Pelagius and his Heresy. (7) The Ecclesiology and Ecclesiastical History of any Parish in Scotland in or near which the student may be resident. Marks, up to 100, according to merit, will be assigned (session 1905-6) to the writers of *one* of those essays.

A written examination of the Senior Class (session 1905-1906) will be held not later than 30th Nov., 1905, on Venerable Bede's *Ecclesiastical History of England* (which may be read in a translation), at which marks up to 50 may be obtained. The marks obtained both for the essay and for this examination will count for the Prize List.

DIVINITY AND BIBLICAL CRITICISM.

¶ This Professorship was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861. The Professor is appointed by the Crown.

Professors.

1863. William P. Dickson, D.D.

1873. WILLIAM STEWART, D.D.

This class will meet on five days of the week at 10 A.M.

The course of lectures is arranged to extend over two sessions ; and the class should accordingly be attended in two consecutive years.

The lectures in 1904-5 will treat of the principles of Interpretation, and of some portions of New Testament Introduction.

The practical application of the principles of Criticism and Hermeneutics will be illustrated in Exegetical Lectures, and by the reading of portions of the Greek New Testament.

Essays on subjects suggested by the work of the class are prescribed at intervals during the session, and the progress of the students is further tested by examinations, partly oral and partly written.

Class of New Testament Greek.—This tutorial class is intended for those who are preparing to pass the examination on the *New Testament in Greek* previous to entering the Divinity Hall, and for those who, with a view to the Exit Examination at the close of the Divinity course, desire to extend their knowledge of New Testament Greek. In the Exit Examination all students, both Bachelors of Divinity and others, are required to show proficiency in reading the New Testament in Greek *ad aperturam*. The Class will meet on three days of the week, viz., Monday, Wednesday, and Friday at 9 A.M. The hour has been fixed to suit the convenience of Students in the first and the third year of the Divinity course. (See table of hours on p. 133.)

IV.—ENDOWED DEMONSTRATORSHIPS, ETC.

THE ARNOTT AND THOMSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS.

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively £2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. The Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

Demonstrators.

1875. James Thomson Bottomley, M.A., D.Sc., F.R.S.

1899. James W. Peck, M.A.

1903. JAMES MUIR, D.Sc.

THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In January, 1877, the late Dr. Henry Muirhead of Longdales, Bothwell Parish, and afterwards of Cambuslang, presented to the University the sum of £2,100, and in November, 1879, a further sum of £400, to endow a Demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of Physiology. The regulations with reference to the appointment are as follows:—

1. That the title of the appointment be “The Muirhead Demonstrator of Physiology.”

2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.

3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of the Professor.

4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.

5. That the incumbent will be expected to devote his entire time to the duties of the appointment.

6. That the appointment be made annually by the Senatus Academicus, with the consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

Present Demonstrator.

WALTER COLQUHOUN, M.A., M.B., C.M.

THE WILLIAM BAXTER DEMONSTRATORSHIP IN GEOLOGY.

This Demonstratorship was founded by the Trust Disposition and Settlement of Mr. William Baxter, Hillhead, Glasgow, who died on 20th November, 1888, and bequeathed to the Senate the sum of £2,500, free of legacy duty, the annual income of which, less the cost of management, he directed should be paid half-yearly to the Demonstrator on the joint certificate of the Clerk of Senate and the teacher of Geology for the time being. The Senate are the patrons of the Demonstratorship.

The following Regulations, drawn in terms of the Founder's will, were adopted by the Senate on 28th February, 1889:—

1. The Demonstratorship shall be held for three years, and shall be open to the candidate who in the three years intervening between each appointment shall have passed the Degree of B.Sc. with Honours, or, in the event of several candidates obtaining Honours, to the candidate whose aggregate marks for the whole subjects of the said degree are the highest; but in the event of no candidate attaining to Honours, the Senate may, if they see fit, award the Demonstratorship to the candidate who shall stand highest in the list, provided his average of marks over all the said subjects is not less than 70 per cent., but any candidate who fails to obtain at least 70 per cent. of marks in the Department of Geology shall *eo ipso* be disqualified to hold the Demonstratorship.

2. The three years' tenure of office shall be subject to the

condition that the incumbent discharges the duties of the office to the satisfaction of the Senate, who have power "to deprive any Demonstrator of his stipend, or a part thereof, should they at any time become dissatisfied with his conduct or his ability to carry out the duties of his office, or with the character of his lectures, or for any other reason they may consider sufficient," the Demonstrator having the right of appeal to the University Court in the event of such deprivation.

3. The duties of the Demonstrator shall be:—

(1) To deliver two courses of lectures—twenty in the winter, twenty in the summer session—(a) on Mineralogy and Petrology, or (b) on Palæontology, or (c) on Physical Geography. These lectures to be accompanied by Demonstrations on specimens selected from the Hunterian collections with the consent of the Keeper.

(2) To give Field Demonstrations of Geology and Petrology, under the direction of the Professor of Natural History (or of Geology when that Chair shall be founded).

(3) To carry on original work in any department of Geological Science which he may select, obtaining therein such assistance by specimens as the Keeper of the Museum shall find it in his power to give.

4. These courses of lectures may be attended (a) by matriculated students of Geology, free; (b) by any matriculated student not a member of the class of Geology, on payment to the Demonstrator of a fee of £1 1s. for each course, or such higher fee as the University Court may fix; (c) by any member of the Geological Society of Glasgow on payment of five shillings in lieu of matriculation fee for the winter or summer session, in addition to the authorized class fee.

5. In the event of no appointment being made, or of the Demonstrator resigning, retiring, or being deprived, the revenue accruing during the period of vacancy shall be added to the capital, and the annual income thereof to the stipend payable to the Demonstrators.

Demonstrator.

1902. FREDERICK MORT, M.A., B.Sc.

WALTONIAN MEDICAL LECTURESHIP.

This Lectureship was founded in 1788 by the Rev. Dr. William Walton, Rector of Upton, in the County of Hunting-

don, who bequeathed to the Senate for its support the sum of £1000, increased by subsequent accumulations to £2787. The lecturer is required to take for his subject that branch of Medicine or Science connected with Medicine which may be assigned to him by the Governing Body of the University. From 1792 a salary was provided out of the Walton Fund for a lecturer on Midwifery till 1815, when the Chair of Midwifery was founded. From 1816 provision was made in like manner for the teaching of *Materia Medica* till a Chair in that subject was founded in 1831. Since 1831 the lectureship has been devoted to the subject of Ophthalmology, but, on the resignation of Dr. Thomas Reid in the end of 1900, the University Court, taking into account that the requirements of Ophthalmology under the new Ordinances were met by the training afforded to students in the Glasgow Eye Infirmary and the Glasgow Ophthalmic Institution, resolved to devote the proceeds of the Foundation to the teaching of some other subject. The arrangements for this are not yet completed.

Lecturers.

Midwifery—1792-1815. James Towers, C.M.

Materia Medica—1816-1831. Richard Millar, M.D.

Ophthalmology—1831-1868. William M'Kenzie, M.D.

Ophthalmology—1871-1900. Thomas Reid, M.D., LL.D.

GIFFORD LECTURESHIP ON NATURAL THEOLOGY.

This Lectureship, as well as similar Lectureships in the other Scottish Universities, was founded in 1887 in accordance with the Trust Disposition and Settlement of the late Adam Gifford, sometime one of the Senators of the College of Justice, Scotland. Lord Gifford directed his Trustees to pay over to the Senatus Academicus of the University of Glasgow the sum of Twenty Thousand Pounds for the purpose of establishing a Lectureship or Popular Chair for promoting, advancing, and diffusing the study of Natural Theology, in the widest sense of that term—in other words, “the Knowledge of God, the Infinite, the All, the First and Only Cause, the One and the Sole Substance, the Sole Being, the Sole Reality, and the Sole Existence, the Knowledge of his Nature and Attributes, the Knowledge of the Relations which men and the whole universe

bear to Him, the Knowledge of the Nature and Foundation of Ethics or Morals, and of all Obligations and Duties thence arising." The Senate are the Patrons. The Lecturer is appointed for a period of two years and no longer, but the same Lecturer may be reappointed for other two periods of two years each, provided that no one person shall hold the office of Lecturer in this University for more than six years in all. The Lecturer is subjected to no test of any kind, and he is not required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind. The Founder expressed a wish that the subject should be treated as a strictly natural science, like astronomy or chemistry. Matriculated students and others may attend the Lectures.

1888. Professor Max Müller.

1892. Principal Caird, D.D., LL.D.

1893. Professor William Wallace, M.A.

1895. Principal Caird, D.D., LL.D.

1896. Professor Alexander B. Bruce, D.D.

1900. Edward Caird, D.C.L., LL.D., Master of Balliol.

1903. PROFESSOR ÉMILE BOUTROUX.

ALEXANDER ROBERTSON LECTURESHIP.

The Rev. Alexander Robertson, a probationer of the Free Church of Scotland, who died at Glasgow on 3rd August, 1899, left the residue of his estate, amounting to £2500, for the endowment of a Lectureship in defence of the Christian Religion. The regulations drawn up by his Trustees—Mr. James Lymburn, Librarian to the University, and the Rev. James B. Dalgety, Paisley—received the sanction of the University Court on 14th November, 1901, and are as follows:

1. The Lectureship shall be called the Alexander Robertson Lectures.

2. The course shall be held not oftener than once in every two years, and shall consist of not fewer than five lectures.

3. Out of the revenue of the Lectureship Fund the lecturer shall be paid the sum of £100 when the lectures have been delivered, and a further sum of £50, provided he shall have published his lectures within one year of their delivery, and shall have furnished to the Library of the University of Glasgow fifty copies for distribution.

4. The Lecturer shall be appointed by the University Court on the nomination of a Committee consisting of the Principal of the University and of the Professors in the Faculty of Theology; and it shall be in the power of the Committee to nominate, if they see fit, a member of the Faculty of Theology.

5. It shall be the duty of the Court, at least twelve months before the income of the Lectureship Fund shall have reached the sum necessary to pay the remuneration of the Lecturer and the grant for publication of the lectures, to send intimation to that effect to the Dean of the Faculty of Theology, and should the aforesaid Committee fail to nominate any one within six months after receiving the said intimation, it shall be in the power of the Court to proceed of itself to the selection and appointment of a Lecturer.

6. The lectures shall be delivered at such times and in such place or places as the said Committee may appoint. Admission to the course shall not be restricted to matriculated students, but shall be freely open to the general public.

7. All surplus revenue and any balance accruing from the non-publication of the lectures or otherwise shall be added to the capital fund of the Lectureship. But should at any time the biennial income of the fund reach a larger sum than £150, two-thirds of the balance over that amount shall go to augment the emolument of the Lecturer, and one-third to increase the grant for the publication of the lectures.

Lecturer—1904. JOHN MORRISON, D.D.

M'CALLUM CELTIC LECTURESHP.

The late Rev. Archibald Kelly M'Callum, LL.D., by his holograph will, dated 8th March, 1881, to which were attached three codicils (the last dated 27th January, 1892), directed his Trustees, among other purposes, to devote an annual sum to a Lectureship, or a course of not fewer than fifteen Lectures, on Celtic Literature. He left detailed directions as to certain subjects which were to be among those discussed. The Lecturer will be appointed by the University Court for a period of three years, and will be eligible for re-election after a subsequent appointment for three years has been made. Matriculated students and others may attend the Lectures. Dr. M'Callum also directed that his library should be handed over to the University as a nucleus for a Celtic Library for the use of the Lecturers and

such students as may attend the Lectures, and any others interested in Celtic Literature. The Library is to be kept separate and designated "The Celtic Lectureship Library," the sum of £10 to be annually expended in making additions thereto.

Lecturers.

1900. Professor Magnus Maclean, D.Sc.

1903. PROFESSOR KUNO MEYER, Ph.D.

V.—WOMEN'S DEPARTMENT.

QUEEN MARGARET COLLEGE.

In February, 1892, the Universities Commission issued an Ordinance (No. 18), empowering the Scottish University Courts to make provision within the Universities for the instruction of women, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. The Council of Queen Margaret College, having considered the provisions of this ordinance, came to the conclusion that the purpose for which the College had been instituted would be best served by making over their work to the University of Glasgow. They accordingly, with the concurrence of Mrs. Elder, the proprietrix of the buildings and grounds hitherto occupied by the College, offered to transfer to the University Court these buildings and grounds, and the endowments (present and prospective), on condition that these should be devoted to the establishment and maintenance of University Classes for women exclusively. The University Court, after consultation with the Senate, having resolved to exercise the power conferred by Ordinance No. 18, and to provide University instruction for women mainly by the institution of separate classes, agreed to accept the offer made by Queen Margaret College, and remitted to a Committee to take the necessary steps for completing the transfer. In virtue of this arrangement the teachers in Queen Margaret College were appointed by the University Court, and the students in session 1892-93 were admitted matriculated students of the University. In 1893 the College was dissolved, and the funds were handed over to the University Court, but the name "Queen Margaret College" survives as designating the part of the University buildings and grounds which is devoted to the education of women.

ALL women students are required to matriculate and to pay their Class Fees and Examination Fees at Queen Margaret College.

The classes in Queen Margaret College will meet as follows daily, unless otherwise specified :—

WINTER SESSION 1904-5.

I.—ARTS.

THURSDAY, 13TH OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Latin, Class I.,</i>	9.45 a.m.,	£3 3	{ PROF. RAMSAY, Mr. D. Rankin, and Mr. R. Nisbet.
<i>Class II.,</i>	3 p.m.,	3 3	
<i>Greek,¹</i>	8.45 a.m.,	3 3	{ PROF. PHILLIMORE and Mr. W. Rennie.
<i>Greek¹ (at the University),</i>	8 a.m.,	3 3	
<i>English Language and Literature,</i> }	2 p.m.,	3 3	{ PROF. RALEIGH and Mr. D. Nichol Smith.
<i>French Language and Literature,</i> }	9.45 a.m.,	3 3	
<i>German Language and Literature,</i> }	11.15 a.m.,	3 3	Dr. G. P. Thistlethwaite.
<i>Italian,</i>	3 p.m.,	3 3	
<i>Elementary (see p. 76),</i> . . . . .	. . . . .	2 2	} Dr. Agnoletti.
<i>Logic,²</i>	12.15 p.m.,	3 3	
<i>Logic,² (at the University),</i>	9 a.m.,	3 3	PROF. LATTA.
<i>Moral Philosophy,³</i>	2 p.m.,	3 3	
<i>Moral Philosophy³ (at the University),</i>	8 a.m.,	3 3	PROF. JONES.
<i>Political Economy (Do.),</i>	2 p.m.,	3 3	
<i>Education (Do.),</i>	4 p.m.,	3 3	Mr. Clark.
<i>History (Do.),</i>	10 a.m.,	3 3	
<i>Mathematics,</i>	2 p.m.,	3 3	{ PROF. JACK, Mr. Bell, and Mr. Picken.
<i>Natural Philosophy⁴ (at the University),</i>	9 a.m.,	4 4 ⁵	
<i>Natural Philosophy,⁴</i>	3 p.m., . . . . .	. . . . .	} 4 4 ⁵ Prof. Blyth.
<i>Physical Laboratory,</i>	Sat., 10 a.m. to 12 noon,	
<i>Chemistry,</i>	12 noon,	4 4 ⁵	} Dr. H. W. Bolam.
<i>Chemical Laboratory,</i>	9 a.m. to 1 p.m.,	£3 3 to 5 5	

II.—MEDICINE.

THURSDAY, 13TH OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Chemistry,</i>	12 noon,	£4 4 ⁵	} Dr. H. W. Bolam.
<i>Chemical Laboratory,</i>	9 a.m. to 1 p.m.,	£3 3 to 5 5	
<i>Practical Chemistry,</i>	{ 9-11 a.m., Tues. and Thurs.,	
<i>Physics,</i>	{ 3 p.m., Mon., Wed., and Fri.,	3 3	} Prof. Blyth.
<i>Physical Laboratory,</i>	10-12, Saturdays,	
<i>Anatomy, Junior,</i>	11 a.m.,	4 4 ⁵	} Dr. T. H. Bryce.
<i>Senior,</i>	3.15 p.m.,	4 4 ⁵	
<i>Practical Anatomy,</i>	9 a.m. to 5 p.m.,	3 5 ⁶	
<i>Physiology,</i>	2 p.m.,	4 4 ⁵	{ PROF. M'KENDRICK and Muirhead Demonstrator.

¹ Women students may select either class of Greek.

² Women students may select either class of Logic.

³ Women students may select either class of Moral Philosophy.

⁴ Women students may select either class of Natural Philosophy.

⁵ Fee for a second or subsequent session, £3 3s.

⁶ Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Materia Medica and Therapeutics,</i>	2 p.m.,	£4 4 ¹	Dr. MacLennan.
<i>Pathology, Systematic,</i>	8 a.m.,	4 4 ¹	Dr. Workman.
<i>Surgery,</i>	4 p.m.,	4 4 ¹	Dr. Pringle.
<i>Practice of Medicine,</i>	4 p.m.,	4 4 ¹	Dr. W. K. Hunter.
<i>Clinical Surgery,</i>	9 a.m.,	(see Hospitals).	
<i>Clinical Medicine,</i>	9 a.m.,	(see Hospitals).	
<i>Midwifery,</i>	12 noon,	4 4 ¹	PROFESSOR M. CAMERON { and Dr. J. M. M. Kerr.

SUMMER SESSION 1905.

MEDICINE.

WEDNESDAY, 19TH APRIL.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Botany,</i>	8 a.m.,	£4 4 ¹	Dr. W. H. Lang.
<i>Practical Botany (at University),</i>	1 to 3 p.m., ²	3 3	
<i>Zoology, Elementary (at University),</i>	11 to 12 noon,	4 4 ¹	PROFESSOR KERR and Mr. Bles.
<i>Zoological Laboratory, Elementary (at University),</i>	9 a.m. to 11 a.m.,	3 3	
<i>Practical Anatomy,</i>	9 a.m. to 5 p.m.,	2 2 ³	Dr. T. H. Bryce.
<i>Embryology,</i>	{ 11 a.m., Mon., Tues., Wed., Thurs., }	2 2	
<i>Practical Anatomy and Embryology, if taken together,</i>		3 3	
<i>Practical Pharmacy,</i>	12 to 1 p.m.,	3 3	Dr. MacLennan. PROF. M'KENDRICK and Muirhead Demonstrator.
<i>Practical Physiology,</i>	2 p.m.,	3 3	
<i>Forensic Medicine (at University),</i>	12.30 p.m.,	4 4 ¹	PROFESSOR GLAISTER.
<i>Practical Pathology,</i>	10.30 a.m.,	3 3	Dr. Workman.
<i>Insanity,</i>	{ 12 noon, Wed., University, and at Gartnavel 1 day weekly. }	2 2	Dr. Yellowlees.
<i>Diseases of the Eye,</i>	{ 4 p.m., Tues. (in Ophthalmic Institute), and Fri. (in Queen Marg. College), and Clinique, 2 p.m. on Mon. and Thurs. }	2 2	Dr. A. M. Ramsay.

HOSPITALS.—Royal Infirmary—First year, £10 10s.; Second year, £10 10s.; six months, £6 6s.; three months, £4 4s. Royal Hospital for Sick Children twelve months, £1 1s. Glasgow Maternity Hospital—£3 3s. Belvidere Fever Hospital, £1 1s.

SCIENCE CLASSES.—Of the subjects above enumerated the following are also in the Faculty of Science, viz.: Mathematics, Natural Philosophy, Chemistry, Botany, Zoology, Anatomy, Physiology, and attendance upon the lectures and in the practical classes qualifies for graduation in Science.

The Honours Classes in Arts and the Higher Classes in Science at the University are open to women.

The arrangements for the classes in Queen Margaret College are similar to those of the classes for men, with the ex-

¹ Fee for a second or subsequent session, £3 3s.

² Students who are taking no class but Botany may take the Practical Class from 9 to 11 a.m., if notice of their wish to do so is given at the beginning of the session.

³ Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

ception of English, French, German, Logic, Moral Philosophy, and Natural Philosophy, the arrangements for which are as follows :—

ENGLISH LANGUAGE AND LITERATURE.

Professor—W. A. RALEIGH, M.A.

Lecturer—D. Nichol Smith, M.A.

Assistant—Ritchie Girvan, M.A.

The class will meet daily, except on Saturday, at 2 p.m.

The subjects to be studied are the following :—

I. On Monday, Wednesday, and Friday, throughout the session, a continuous course will be given on the History of English Literature of the Romantic Revival (1784-1832). The works prescribed for study are :—

The poetical works of Wordsworth, Coleridge, Shelley, Keats, Scott, Byron.

II. On Tuesdays and Thursdays the following subjects will be studied :—

(1) The history of the English Language.

(2) English Composition. Text-books : *Composition Primer* and *Questions and Exercises on English Composition*, Nichol and M'Cormick.

(3) Shakespeare, *As You Like It*, *Hamlet* ; Pope, *The Rape of the Lock* ; Lamb, *Essays of Elia* ; Hazlitt, *Essays on poets of his own time*.

Students who have already taken the ordinary class are permitted to attend the Lectures on Monday, Wednesday, and Friday, for a fee of £2 2s. Such attendance cannot be reckoned towards graduation.

For the Honours Class, see p. 72. For the Nichol Memorial Prize, see Index.

FRENCH LANGUAGE AND LITERATURE.

Lecturers.

1895. Alfred Mercier, L.-ès-L.

1898. CHARLES MARTIN, M.A. (Paris), O.A.

The class meets daily at 9.45 A.M., and the course qualifies for graduation in Arts. The work of the class includes the subjects stated in the syllabus of the class of French Language

and Literature at page 73. A tutorial class meets as often as convenient to the students for the correction of pronunciation and exercises.

A class library well provided with books of reference is open free to students from 9 a.m. till 5 p.m.

Students who take French for purposes of graduation must attend both classes, but students who do not intend to graduate may take the Language Class alone or the Literature Class alone. The fee for the Language Class alone or the Literature Class alone is £2 2s.

HONOURS CLASS.—See p. 74.

GERMAN LANGUAGE AND LITERATURE.

Lecturer.

G. P. THISTLETHWAITE, B.A., Ph.D.

ORDINARY CLASS.—This class meets daily at 11.15 A.M., and the course, which extends to one hundred meetings, qualifies for graduation in Arts. The work of the class includes the subjects stated in the syllabus of the Class of German Language and Literature at page 75.

Students who do not intend to graduate may take either the Literature Class or the Language Class alone. The fee for one class alone is £2 2s.

HONOURS CLASS.—See p. 75.

LOGIC.

Lecturer—NORMAN SMITH, M.A., D.Phil.

This class meets daily at 12.15 P.M., and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class includes the subjects stated in the syllabus of the class of Logic and Rhetoric at page 77.

MORAL PHILOSOPHY.

Lecturer—ROBERT A. DUFF, M.A., D.Phil.

This class meets daily at 2.45 P.M., and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class includes the subjects stated in the syllabus of the class of Moral Philosophy at page 78.

NATURAL PHILOSOPHY (PHYSICS).

Lecturer.

JAMES BLYTH, M.A., LL.D., F.R.S.E.

This class will meet daily at 3 P.M., except on Saturdays; also, for practical work, on Saturdays, 10 to 12. The course will include:—

(1) Experimental Physics (Properties of Matter, Sound, Heat, Light, Magnetism, Static Electricity, Voltaic Electricity, Electro-Magnetism), Mondays, Wednesdays, and Fridays. The Lectures will be fully illustrated by experiment.

(2) Theoretical Mechanics (Elementary Kinematics, Elementary Dynamics), Tuesdays and Thursdays.

(3) Practical Physics, Saturdays, 10 to 12. The students will work practically in the Laboratory, and will be taught the construction and use of physical apparatus generally, and will also be required to employ the various instruments, so as to verify natural laws and obtain numerical results.

Text-book.—Knott's *Elementary Physics* or Watson's *Physics*.

Students intending to take a Degree in Arts must take the whole course. The requirements of students preparing for Degrees in Medicine will be met by the first division of the course, and by attending three days weekly, viz., Mondays, Wednesdays, and Fridays.

VI.—SPECIAL STUDY AND RESEARCH.

In Ordinance No. 61, the Universities Commission (1889) made the following regulations for the encouragement of special study and research, and for the appointment of Research Fellows:—

I. It shall be in the power of the Senatus Academicus in each University, with the approval of the University Court, to make regulations under which graduates of Scottish Universities or of other Universities recognized by the University Court for the purposes of this ordinance, or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research, may be admitted to prosecute such study or research in the University.

II. It shall be the duty of the Senatus Academicus in each University—(1) To receive and decide upon all applications for admission to prosecute special study or research; (2) To prepare a list of all persons so admitted (hereinafter referred to as

Research Students); (3) To make regulations for the supervision of their work; (4) To satisfy themselves from time to time that the Research Students are carrying on their work in the University in a satisfactory manner; (5) To suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

III. Every applicant for admission must send in to the *Senatus Academicus* a written application stating any degree or other distinction which he has already obtained, the line of study or research which he wishes to prosecute and the probable period of its duration, together with evidence as to his character, capacity, and general qualifications.

IV. Any application for admission shall be in the first instance referred by the *Senatus Academicus* to the appropriate Faculty, or to a Committee appointed by the *Senatus*; one member of the Committee shall always be a Professor or Lecturer within whose department the proposed line of study or research falls. No applicant shall be recommended by the Faculty or the Committee who has not satisfied them by examination or otherwise that he is qualified to prosecute the proposed line of study or research, and further—(a) That his proposed line of study or research is a fit and proper one; (b) That he possesses a good general education; (c) That he is of good character; (d) That he proposes to prosecute his studies or research during a period to be approved by the *Senatus Academicus*. The Faculty or the Committee shall make a report to the *Senatus Academicus* upon each application. It shall also be their duty, subject to the regulations of the *Senatus Academicus*, to provide for the supervision of the Research Student's work, and to report at least once a year to the *Senatus* as to his progress and conduct. The *Senatus* shall then determine whether he shall remain a Research Student.

V. Every Research Student shall be required to matriculate each year, paying the ordinary fee.

VI. Research Students shall have access to and the use of the University Laboratories and Museums, under such conditions as to payment and otherwise as the University Court, after consultation with the *Senatus Academicus*, may determine.

Under this section the following regulations have been made:—1. In each laboratory each Research Student shall make payment of a sum which is estimated by the Professor as

sufficient to cover the ordinary expenses incident to the Research Student's work. Apparatus and material beyond what is included in the ordinary operations of the laboratory shall be charged to the Student, unless the Professor judges that such apparatus and material will be a useful addition to the laboratory. But it shall be in the power of each Professor to propose to the University Court in any particular case that these payments may be remitted in whole or in part. 2. In all matters of discipline the Research Student shall be under the control of the Professor in whose laboratory he works. 3. All papers arising out of work done in a laboratory shall be submitted to the Professor before publication, and in all such publications a due recognition of the laboratory shall be inserted.

VII. The title of Research Fellow may be conferred by the Senatus Academicus, with the approval of the University Court, on Research Students who have shown special distinction. Such title shall not of itself confer any right to stipend, but it shall be in the power of the University Court to provide a stipend of such amount and for such period as it may think fit to any Research Fellow under the powers of Ordinance 25, Section XI., sub-section 8.

VIII. (1) The Research Fellows shall be appointed as aforesaid after consideration of the report or reports submitted in terms of Section IV. hereof.

- (2) The title of Research Fellow may be conferred either at the commencement of the Research Student's course of study or research, or at any time during its progress, as the Senatus Academicus may determine.
- (3) Research Fellows shall retain their title and stipend, if any, for the period during which they are engaged in special study or research in the University, and no longer.
- (4) Research Students who have been appointed Research Fellows shall continue to be subject to the conditions above prescribed as to the supervision of their work and the reports to be made thereon.

IX. Nothing herein contained shall prejudice the right of Research Students to such Fellowships, Scholarships, or Prizes as may be open to them by Ordinance or Deed of Foundation.

X. The University Court may, subject to the provisions of Ordinance No. 25, Section XI., sub-section 8, provide such sums as it may think fit in aid of the expenses of special study or research.

RESEARCH STUDENTS OF 1903-4.

John M. Cowan, B.A., M.D., Researches on the Myocardium.

Robert Hamilton, M.A., Viscosity of liquids in a Magnetic Field.

Robert A. Houstoun, M.A., B.Sc., (1) Investigation by Echelon Grating of Spectra of Helium, Mercury, etc.; (2) Refractivity of Gases.

Dougald B. MacQuistan, M.A., B.Sc., (1) Radiation from a Mercury Vacuum Tube; (2) Comparison of the theoretical resolving power of the Echelon Spectroscope with that found by experiment; (3) Ionisation at the surface of metals; (4) Variation of Conductivity of atmospheric air with pressure.

John Miller, Magnetic Viscosity.

William Miller, M.A., B.Sc., Radio-activity of different substances, soils, etc.

W. E. Williams, B.Sc., Effect of a Magnetic Field on the Resistance of Iron, Nickel, and Nickel Steel.

VII.—THE CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND.

This Trust was created by Mr. Andrew Carnegie of New York, and of Skibo in the County of Sutherland. By a trust-deed dated 7th June, 1901, Mr. Carnegie conveyed to Trustees \$10,000,000 Bonds by the United States Steel Corporation, bearing interest at 5 per cent., and directed that one-half of the net income should be applied towards the improvement and expansion of the Universities of Scotland in the Faculties of Science and Medicine, also for improving and extending the opportunities for scientific study and research, and for increasing the facilities for acquiring a knowledge of History, Economics, English Literature, and Modern Languages, and such other subjects cognate to a technical or commercial education as can be brought within the scope of the University curriculum, by the erection and maintenance of buildings, laboratories, class-rooms, museums or libraries, the providing of efficient apparatus, books, and equipment, the institution and endowment of Professorships and Lectureships, including post-graduate Lectureships and Scholarships, more especially Scholarships for the purpose of encouraging research, or in such other manner as the Executive Committee of the Trustees might from time to time decide.

It is directed that the other half of the income, or such part thereof as in each year may be found requisite, shall be devoted to the payment of the whole or part of the ordinary class fees exigible by the Universities from students of Scottish birth or extraction, and of 16 years of age or upwards, or scholars who have given two years' attendance after the age of 14 years at such schools and institutions in Scotland as are under inspection by the Scotch Education Department. They must have passed the examination qualifying for admission to the classes for which payment of fees is to be made by the Trust. Applications for the payment of fees must be made in the form prescribed by the Committee. The decision of the Committee in all questions of qualification shall be final, and the fees of all applicants declared to be eligible shall in each case be paid by the Committee as they become due to the factors or authorised officers of the Universities. The Committee shall also have power to withhold payment of fees from any student who is guilty of misconduct, or who fails within a reasonable time to pass the ordinary examinations of the University or any of them. Any surplus remaining in any year from the income applicable to this head of expenditure shall be applied to the first head of expenditure. Extra-mural Colleges, Schools, or classes in Scotland, attendance at which is recognised as qualifying or assisting to qualify for graduation shall, on application, be entitled to participate under the first head of expenditure to such an extent as the Committee may from time to time determine, and the students thereof shall be admitted to the privileges of the second half. In the case of schools or institutions in Scotland established to provide technical or commercial education, the Committee may recognise classes which, though outside the present range of the University curriculum, can be accepted as doing work of a University level, and may allow them and the students thereof to participate under both heads of expenditure to such an extent as the Committee may from time to time determine.

Any surplus income which may remain after satisfying the preceding requirements is to be at the disposal of the Committee, who may expend it (1) in establishing or assisting to establish courses of lectures in convenient centres by Professors or Lecturers of the Universities or Extra-mural Colleges or Schools, in Science and the subjects before-mentioned; or (2)

for the benefit of evening classes of students engaged in industrial or professional occupations during the day; or (3) in any other way the Trustees may think proper towards furthering the usefulness of the Universities in connection with the purposes expressed in the trust-deed and constitution. The benefits of the Trust are available to students of both sexes.

The Trustees are partly nominated, and there are also *ex officio* and elected members. The following are the nominated members :

The Right Hon. the Earl of Elgin and Kincardine, K.G., P.C., G.C.S.I., G.C.I.E., D.C.L., LL.D., *Chairman*.

The Right Hon. the Earl of Rosebery, K.G., P.C., K.T., D.C.L., LL.D., F.R.S.

The Right Hon. Lord Balfour of Burleigh, P.C., K.T., LL.D.

The Right Hon. Lord Kelvin, P.C., G.C.V.O., D.C.L., LL.D., F.R.S.

The Right Hon. Lord Kinnear of Spurness, one of the Senators of the College of Justice.

The Right Hon. Lord Reay of Reay, G.C.I.E., G.C.S.I., D.C.L., LL.D.

The Right Hon. Arthur James Balfour, M.P., D.C.L., LL.D.

The Right Hon. Sir Henry Campbell-Bannerman, M.P., G.C.B., LL.D.

The Right Hon. James Bryce, M.P., D.C.L., LL.D.

The Right Hon. John Morley, M.P., D.C.L., LL.D., F.R.S.

Sir Robert Pullar.

Sir Henry Enfield Roscoe, D.C.L., LL.D., F.R.S.

Richard Burdon Haldane, P.C., K.C., M.P., LL.D.

Thomas Shaw, K.C., M.P.

The following are the *ex officio* members :

His Majesty's Secretary for Scotland.

The Lord Provost of Edinburgh.

The Lord Provost of Glasgow.

The Provost of Dunfermline.

The elected members are four in number, one chosen by the University Court of each of the four Scottish Universities. They hold office for periods of four years, and are at present Principal Donaldson (St. Andrews), Professor Stewart (Glasgow), Professor Hay (Aberdeen), and Principal Sir William Turner (Edinburgh).

The administration of the Trust is conducted by an Executive Committee of nine members, one of whom is the Chairman of the Trust. Two of the four Trustees elected by the Universities are members of the Executive Committee for the first two years, the other two for the next two years, and so on.

The Executive Committee for the Academic year 1904-5 is as follows :

The Earl of Elgin and Kincardine, K.G., P.C., *Chairman*.

Lord Balfour of Burleigh, P.C., K.T.

Lord Kinnear of Spurness, K.C., LL.D.

Sir Henry Enfield Roscoe, D.C.L., LL.D.

Thomas Shaw, K.C., M.P.

The Lord Provost of Edinburgh, or an assessor nominated by him, after consultation and with the consent of the Trustees.

The Lord Provost of Glasgow, or an assessor nominated by him, after consultation and with the consent of the Trustees.

Principal Donaldson, LL.D., St. Andrews.

Professor Stewart, D.D., Glasgow.

The offices of the Trust are at the Merchants' Hall, Hanover Street, Edinburgh. *Secretary*, Dr. W. S. M'Cormick ; *Treasurer*, Dr. John Ross. All applications should be addressed to the Secretary of the Trust.

The following excerpt from a letter written by Dr. Carnegie to the Earl of Elgin, Chairman of the Trust, explains the intention of the founder :—

“London, 7th June, 1901.

“My Dear Lord Elgin,

“As your Lordship is aware, my desire throughout has been that no capable student should be debarred from attending the University on account of the payment of fees. I believe that the conditions of application ensure a sufficient standard of merit, and I hope that the honest pride for which my countrymen are distinguished will prevent claims from those who do not require assistance, and that the invidious task of enquiring into the circumstances of each candidate need not be imposed upon the Trustees. But, to further mark my personal belief and hope in this matter, I have made provision in the

Trust Deed that the Trustees may receive funds from others to be administered along with the funds placed by me. I consider this a valuable clause, believing, from my own experience with young men, that some students in after life may value the privilege of repaying advances received from the Trustees, although these are free gifts. I hope the Trustees will gladly welcome such repayments, if offered, as this will enable such students as prefer to do so to consider the payments made on their account merely as advances which they resolve to repay if ever in a position to do so, and that this will protect and foster the spirit of manly independence so dear to the Scot.

Very truly yours,

ANDREW CARNEGIE."

An important part of the Trust's operations concerns the endowment of Post-Graduate Study and Research, and the Executive Committee have issued certain Regulations defining the purposes for which Scholarships, Fellowships, and Grants in aid of Research are offered, and setting forth the conditions under which they may be held. They are as follows :

I. SCHOLARSHIPS.

(a) *In Science and Medicine.*

The Executive Committee are prepared to consider applications for Carnegie Scholarships in Science and Medicine on the following conditions :

I. A Scholar must be a graduate of a Scottish University who desires to devote himself to higher study and research in some department of science or medicine.

II. A Scholarship shall be of the annual value of £100, payable by half-yearly instalments in advance, the second instalment being payable on the receipt of a satisfactory report by the Scholar and certificate from the authority under whose supervision the Scholar has been working. The Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Scholar.

A Scholarship shall not be held along with any other scholarship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other scholarship or position of emolument, the Executive Committee

may, in place of granting or continuing to grant a Carnegie Scholarship, supplement the amount of such scholarship or emolument so as to bring the income up to at least £100, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Scholar.

III. A Scholar shall ordinarily be expected to devote his whole time to the purpose for which the Scholarship is awarded. If he proposes to undertake other work during his tenure of the Scholarship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Scholarship shall ordinarily be tenable for one year ; but it may be renewed for a second year, if the Executive Committee deem this expedient.

V. A candidate must be nominated by a Professor or Lecturer in a Scottish University, or by a Teacher in Scotland recognised for the purpose of graduation by a Scottish University, under whose supervision, unless other supervision be approved by the Executive Committee, he shall work during his tenure of the Scholarship.

The Nomination Form, to be signed by the nominator and the candidate, must contain information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates :

(1) The age of the candidate, his career as a student, and his knowledge of modern languages.

(2) His special fitness for the work proposed.

(3) His programme of study and research during his tenure of the Scholarship, and where and under whose supervision he proposes to work.

(4) Whether the candidate proposes to undertake other work during his tenure of the Scholarship ; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether the candidate holds, or expects to hold, any other scholarship or position of emolument ; and if so, particulars of the amount and duration of such scholarship or emolument.

(6) The names of two or more authorities, other than the nominator, to whom the Executive Committee may refer as to the qualifications of the candidate.

The nominator must, if required, satisfy the Executive Com-

mittee that the candidate, if appointed to a Scholarship, will be provided with the facilities and supervision necessary for carrying out his programme of study and research, and that such information will be furnished on his progress and conduct as may seem expedient to the Executive Committee.

VI. By accepting a Scholarship a Scholar comes under an obligation to submit such reports on the progress of his work as the Executive Committee may require.

VII. Nomination Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

(b) In History, Economics, and Modern Languages and Literature.

The Executive Committee are prepared to consider applications for Carnegie Scholarships in History, Economics, and Modern Languages and Literature on the following conditions:

I. A Scholar must be a graduate of a Scottish University, preferably with Honours in at least one of the Groups: History, Economic Science, English, Modern Languages and Literature, who desires at home or abroad to devote himself to higher study and investigation within the scope of these groups of study.

II. A Scholarship shall be of the annual value of £100, payable by half-yearly instalments in advance, the second instalment being made payable on the receipt of a satisfactory report by the Scholar and certificate from the authority under whose supervision the Scholar has been working. The Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Scholar.

A Scholarship shall not be held along with any other scholarship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other scholarship or position of emolument, the Executive Committee may, in place of granting or continuing to grant a Carnegie Scholarship, supplement the amount of such scholarship or emolument so as to bring the income up to at least £100, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Scholar.

III. A Scholar shall ordinarily be expected to devote his whole time to the purpose for which the Scholarship is awarded. If he proposes to undertake other work during his tenure of the Scholarship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Scholarship shall ordinarily be tenable for one year; but it may be renewed for a second year, if the Executive Committee deem this expedient.

V. A candidate must be nominated by the Board of Studies whose Department of Study includes the Group in which he has graduated with Honours, and also by the Board of Studies whose Department of Study includes the subject or subjects relevant to the candidate's proposed study or investigation, should this Board of Studies be other than the former.

The Nomination Form, to be signed by the Convener or Conveners of the Board or Boards of Studies and by the candidate, must contain information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates :

(1) The age of the candidate, and his career as a student, including particulars as to his general culture and his proficiency in the above-named groups of study.

(2) His special fitness for the work proposed.

(3) His programme of study and investigation during his tenure of the Scholarship, and where and under whose supervision he proposes to work.

(4) Whether the candidate proposes to undertake other work during his tenure of the Scholarship; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether the candidate holds, or expects to hold, any other scholarship or position of emolument; and if so, particulars of the amount and duration of such scholarship or emolument.

(6) The names of two or more authorities, other than the nominator or nominators, to whom the Executive Committee may refer as to the qualifications of the candidate.

The nominator or nominators must, if required, satisfy the Executive Committee that the candidate, if appointed to a Scholarship, will be provided with the facilities and supervision necessary for carrying out his programme of study and investigation, and that such information will be furnished on his

progress and conduct as may seem expedient to the Executive Committee.

VI. By accepting a Scholarship a Scholar comes under an obligation to submit such reports on the progress of his work as the Executive Committee may require.

VII. Nomination Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

II. FELLOWSHIPS.

(a) *In Science and Medicine.*

The Executive Committee are prepared to consider applications for Carnegie Fellowships in Science and Medicine on the following conditions :

I. A Fellow must be a graduate of a Scottish University who has given evidence, preferably by work already published, of capability to advance science or medicine by original research, and who desires to devote himself further to this work.

II. A Fellowship shall be of the annual value of £150, exclusive of such special expenses in connection with his research as the Executive Committee may allow. Payment shall be made by half-yearly instalments in advance ; but the Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Fellow.

A Fellowship shall not be held along with any other fellowship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other fellowship or position of emolument, the Executive Committee may, in place of granting or continuing to grant a Carnegie Fellowship, supplement the amount of such fellowship or emolument so as to bring the income up to at least £150, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Fellow.

III. A Fellow shall ordinarily be expected to devote his whole time to the purpose for which the Fellowship is awarded. If he proposes to undertake other work during his tenure of the Fellowship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Fellowship shall ordinarily be tenable for two years,

the extension to a second year being dependent on the receipt of a satisfactory report by the Fellow on his work during the first year; but it may be renewed for a third year, if the Executive Committee deem this expedient.

V. A candidate must furnish the Executive Committee with information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates:—

(1) His age, his career as a student, and his knowledge of modern languages.

(2) His special fitness to conduct the research proposed, and his previous experience, along with any published accounts of work already done.

(3) His programme of research during his tenure of the Fellowship; where he proposes to work; and whether he proposes to work independently or in collaboration.

(4) Whether he proposes to undertake other work during his tenure of the Fellowship; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether he holds, or expects to hold, any other fellowship or position of emolument; and if so, particulars of the amount and duration of such fellowship or emolument.

(6) The names of two or more authorities to whom the Executive Committee may refer as to his qualifications.

(7) An estimate, as detailed as is possible, of special expenses, if any, required in connection with the research he proposes to undertake.

VI. By accepting a Fellowship a Fellow comes under an obligation to submit such reports on the progress of his work as the Executive Committee may require.

The publication, in some form, of an account of the results of his research will be expected in all cases.

VII. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

(b) In History, Economics, and Modern Languages and Literature

The Executive Committee are prepared to consider applications for Carnegie Fellowships in History, Economics, and Modern Languages and Literature on the following conditions:

I. A Fellow must be a graduate of a Scottish University, preferably with Honours in at least one of the Groups: History, Economic Science, English, Modern Languages and Literature, who desires to investigate at first-hand, at home or abroad, some historical, social, economic, or educational problem or factor of modern civilisation, and who can give evidence by his previous career and general culture, and also preferably by work already published, of capability to advance knowledge by his proposed investigation.

II. A Fellowship shall be of the annual value of £150, exclusive of such special expenses in connection with his investigation as the Executive Committee may allow. Payment shall be made by half-yearly instalments in advance; but the Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Fellow.

A Fellowship shall not be held along with any other fellowship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other fellowship or position of emolument, the Executive Committee may, in place of granting or continuing to grant a Carnegie Fellowship, supplement the amount of such Fellowship or emolument so as to bring the income up to at least £150, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Fellow.

III. A Fellow shall ordinarily be expected to devote his whole time to the purpose for which the Fellowship is awarded. If he proposes to undertake other work during his tenure of the Fellowship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Fellowship shall ordinarily be tenable for two years, the extension to a second year being dependent on the receipt of a satisfactory report by the Fellow on his work during the first year; but it may be renewed for a third year, if the Executive Committee deem this expedient.

V. A candidate must furnish the Executive Committee with information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates:—

(1) His age, and his career as a student, including par-

ticulars as to his general culture and his proficiency in the above-named groups of study.

(2) His special fitness to conduct the investigation proposed, and his previous experience, along with any published accounts of work already done.

(3) His programme of investigation during his tenure of the Fellowship; where he proposes to work; and whether he proposes to work independently or in collaboration.

(4) Whether he proposes to undertake other work during his tenure of the Fellowship; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether he holds, or expects to hold, any other fellowship or position of emolument; and if so, particulars of the amount and duration of such fellowship or emolument.

(6) The names of two or more authorities to whom the Executive Committee may refer as to his qualifications.

(7) An estimate, as detailed as is possible, of special expenses, if any, required in connection with the investigation he proposes to undertake.

VI. By accepting a Fellowship a Fellow comes under an obligation to submit such reports on the progress of his work as the Executive Committee may require.

A Fellow will be expected to submit for publication a thesis or memoir upon the results of his investigation.

VII. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

III. GRANTS IN AID OF RESEARCH.

The Executive Committee are prepared to consider applications for Grants in aid of Research on the following conditions:—

I. An applicant for a Research Grant must be a Professor, Lecturer, or Assistant in a Scottish University, a Teacher in Scotland recognised for the purpose of graduation by a Scottish University, or a Scottish University Graduate resident in Scotland.

II. A Research Grant is not intended to take the place of such provision as the University Courts may make out of the Grants for Permanent Equipment under the Scheme of "Grants for five years to the four Universities of Scotland."

III. An applicant must furnish the Executive Committee with information on the following points, all of which will be taken into consideration in estimating the relative claims of applicants:—

(1) His experience in research, with copies of or references to any published papers, or, if he has no papers to offer, with references to two or more authorities who are acquainted with his qualifications.

(2) The nature of the research in which he desires to engage, and the results expected to follow therefrom.

(3) The period over which the proposed research is likely to extend, and the approximate amount of time which he expects to be able to devote to it.

(4) A statement of special requirements for the proposed research, with a detailed estimate of the cost.

(5) Whether he has received, or is receiving, any grant from any other source for the same object; and if so, what results have already ensued from his investigations.

III. By accepting a Grant an applicant comes under an obligation to send to the Executive Committee, when required, a report containing—(a) a brief statement (not necessarily for publication) showing the results arrived at, or the stage which the inquiry has reached; (b) a statement of the expenditure incurred; and (c) copies of or references to any papers in which results of the research have been printed.

The publication, in some form, of an account of the results of the research will be expected in all cases.

IV. Instruments of permanent value purchased by means of the grant shall, at the conclusion of the research or at such other time as the Executive Committee may determine, be placed under the care and at the disposal of the institution in which the research has been conducted, provided that the Executive Committee may, if they see fit, request their return.

V. An application for a Grant to two or more collaborators in the same research must be signed by each; but they shall appoint one of their number who shall be responsible for furnishing the report, for receiving and disbursing the money, and in general for the conduct of the research.

VI. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

VIII.—LIBRARIES, MUSEUM, BOTANIC GARDEN.

UNIVERSITY LIBRARY.

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Librarian is appointed by the University Court. The Library is under the immediate superintendence of a Committee consisting of three members of the University or others, not being members of Senate, appointed by the University Court, and of six members of Senate appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports.

The Library is always increasing by donations and by a grant of £707 per annum, formerly paid by the Treasury, as compensation for the loss of the Stationers' Hall privilege, and now received from the University Court. It receives also a grant of £100 annually for scientific periodicals from the Bellahouston Trustees. The Carnegie Trust has allocated to the library a grant of £1000 for each of the five years from 1st January, 1903.

During recent years the Library has acquired several valuable collections. Amongst these the most important are the following:—

The Collection bequeathed to the University by the late W. EUING, Esq., amounting to about 15,000 volumes. It contains many books printed in the fifteenth and sixteenth centuries, illustrated books, English literature, Classics, above 2,000 Bibles, and a very large number of Psalm and Hymn books.

The library of the late SIR WILLIAM HAMILTON, Professor of Logic in the University of Edinburgh, amounting to about 8,000 volumes. This collection, which consists principally of Classics, editions of Aristotle, and treatises on Logic and Metaphysics, was purchased by private subscription and presented to the University. A list of the subscribers was inserted in the *Calendar* for 1879-80.

The WALKER-ARNOTT Botanical library of 970 volumes.

The Musical library of the late THOMAS L. STILLIE, Esq., numbering 760 volumes. It contains the works of the chief

composers, many of them in score, and an extensive series of modern operatic compositions, continental and English.

The collection of books on Palestine, which belonged to the late DR. A. B. M'GRIGOR, consisting of 655 volumes of works, illustrating the natural and civil history, topography, and antiquities of Jerusalem and the Holy Land. This collection was presented along with 83 volumes, containing about 1,000 pamphlets, by Alexander M'Grigor, Esq.

The library of the REV. A. K. MACCALLUM, LL.D., containing over 3,000 volumes, bequeathed to the University—along with an annual sum of £10 to be spent on its increase—as the nucleus of a Celtic library.

A collection of works, numbering over 600 volumes, relating to Mediaeval Philosophy, which formed part of the library of the late PROFESSOR VEITCH—presented by Mrs. Veitch.

A selection, consisting mainly of theological works and amounting to about 3,800 volumes, from the library of the late Rev. Alexander Robertson, who also left the residue of his means to found a lectureship in the University in defence of the Christian religion; 800 volumes of general literature from the library of the late F. A. ECK, Esq.; over 1,000 volumes—selected from the library of the late JAMES HOTSON, merchant—presented by DR. THOMAS REID; 700 volumes, including extensive histories of the Netherlands, books on universities and schools, and many theological works, presented by Professor J. E. B. MAYOR, D.D.; a complete copy of Migne's *Patrologie* in 388 volumes, presented along with an oak book-case by the subscribers as a memorial of the late Dr. W. P. DICKSON, Curator of the Library; about 460 volumes from the library of the late Professor YOUNG, M.D.; and 458 volumes, including 922 pamphlets, published at the University Press—presented by JAMES J. MACLEHOSE, Esq., M.A.

The custody and management of the Library are regulated by Ordinance No. 64, and by the rules framed under that Ordinance and approved by the University Court on 14th November, 1895. The following are the principal regulations relative to the use of the Library:—

Books shall not be given out except to the borrower in person, or to some one having written authority from him.

It shall be in the power of the Librarian at any time to withdraw any work from circulation, subject to appeal to the Library Committee;

and to call in any book from any borrower after the lapse of the period for which such borrower is entitled to retain it, upon receiving a written request to do so from any person entitled to the use of the Library. In the notice of recall a period of not less than three clear days shall be allowed for making the return, and the penalties leviable for neglect shall be specified in the notice.

The following classes of work, viz.:—Manuscripts, rare books or books in any way difficult to be replaced, works of reference, separate maps or plates, unbound music or parts of works, pamphlets or books not sufficiently protected by the binding, shall not be given out except on an order of, and under conditions to be fixed by, either (*a*) the Senate, (*b*) the Library Committee, or (*c*) three Members of the Library Committee, according as, in the discretion of the Librarian, the special circumstances of each case may require.

Each member of the following classes of readers shall be allowed to borrow, and to have in his, or her, possession at one time the under-mentioned number of volumes, but not more :—

Each Member of the *Senatus Academicus*, thirty volumes.

Each University Lecturer, twenty volumes.

Each Assistant and Examiner, and each holder of a Teaching Fellowship, fifteen volumes.

The Librarian, ten volumes; and each Assistant-Librarian, five volumes.

Each Extra-Academical Teacher, recognized by the University Court, in the town in which the University is situated, ten volumes.

Each retired Principal or Professor, ten volumes.

Each Member of the University Court, during his tenure of office, ten volumes.

Each Member of the General Council of any Scottish University (and each Graduate under the age of twenty-one years) in each year in which he, or she, shall have paid a subscription to the Library of ten shillings and sixpence, six volumes.

Provided that no Member of the University Court or of the General Council shall be entitled to obtain from the University Library books required by the teachers or students of the University in the prosecution of academic work and research, and that it shall be in the discretion of the Librarian, subject to appeal to the Library Committee, to decide from time to time what books are so required.

Any Member of the General Council of any Scottish University shall be allowed to compound for the Library subscription by a single payment of Five Guineas, which shall secure to him, or her, for life the same privileges as would accrue from the annual payments.

It shall be in the power of the Library Committee from time to time to grant the use of the Library to persons who may not be Members of the University, for purposes of literary research, and the names of those privileged readers shall be reported annually to the University Court. All grants under this section shall terminate with the close of the reading year, but shall be renewable if again applied for. Each special

reader shall pay an annual subscription of ten shillings and sixpence, and shall be entitled to borrow six volumes at one time, but not more.

Subject always to the provision as to the return of books for the annual inspection, all persons entitled to the use of the Library under the foregoing regulations shall have the right to retain each book borrowed during the winter session for one month, and each book borrowed during the summer session for two months, from the date of borrowing; and may further retain each book until it shall have been recalled by the Librarian.

Every Matriculated student, or other Student admitted by ordinance to the use of the Library, shall be entitled to have in his, or her, possession at one time, during the winter session, four volumes but not more, and during the summer session and vacation, six volumes but not more. Every student shall have the right—subject to the return of books for the inspection—to retain any book during the winter session for two weeks, and during the summer session for four weeks, from the date of borrowing, and may further retain each book until it shall have been recalled by the Librarian. But no student shall be permitted to borrow any book from the Library until he, or she, shall have lodged with the Librarian a deposit of £1 in security for the due return of the books and the payment of any fines which may be incurred.

During the winter session such students only as are attending the English Literature classes shall be allowed to borrow works of fiction in English, and then only to the extent of two volumes at one time. During the summer session and vacation students may borrow three volumes of fiction at one time, but not more.

The reading term for Students, Members of General Council, and Special Readers, shall begin with the commencement of the winter session in each year, and terminate with the close of the autumn vacation following.

Readers shall not be allowed to borrow books in more than one capacity.

A general inspection of the Library shall take place in April, beginning with the seventh, and continuing for eight lawful days thereafter.

All works whatever, and by whomsoever borrowed, shall be returned to the Library before the beginning of the period of the annual inspection under the penalties hereinafter mentioned. The Library shall be wholly closed during the time of the inspection.

If any person shall retain any volume after the commencement of the period of the annual inspection, such person shall incur a fine of one shilling for each volume; and in the event of any volume not being returned before the close of one week after the last day of the inspection, the fine shall be repeated from week to week until the volume is returned, or until the total amount of the fine shall have reached the sum of ten shillings.

If any person, when required by the Librarian to return a book, shall fail to do so before the expiry of the time specified in the notice, such person shall incur a fine of one shilling for each volume, and thereafter a further penalty of sixpence per day so long as the volume is not returned, or until the total amount of the fine shall have reached the sum of ten shillings.

The Librarian is instructed forthwith to report to the Library Committee all cases in which he shall find that books have been mutilated, disfigured by writing on the margin, or otherwise injured, while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

So long as any Library subscription or any fine incurred remains unpaid, and so long as any person continues in possession of a book which he is not entitled to retain, the right of the defaulter to the use of the Library shall be suspended and remain in abeyance.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant-Librarians in the ante-room on the days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall.

Visitors on giving their names will be conducted over the Library by an attendant.

The Library is open for giving out and receiving back books every lawful day during the winter session from 11 A.M. till 2.30 P.M., except the Christmas and other holidays specially appointed by the University, when it remains closed, and on Saturdays, when it is open from 11 A.M. till 1 P.M. During the summer it is open on Mondays, Wednesdays, and Fridays from 11.30 A.M. till 2 P.M.

Additional Regulations approved by the University Court on 1st October, 1903:—

1. The members of the Court, the Library Committee and the Teaching Staff and all readers (other than matriculated students) entitled to borrow books without payment of subscription, shall have the privilege of free access to the open shelves and to the recent numbers of current periodicals, during the hours when the Library is open.

2. Similar free access shall also be given to matriculated Research Students and to such Carnegie Scholars and Fellows as become members of the University, provided in all cases that they shall have first become readers in the Library and made the usual deposit.

3. The same privileges may be granted to a limited number of matriculated Students who shall be specially recommended to the Library Committee as likely to make a good use of them, on the following conditions:

- (a) The recommendation shall be in writing, it must be signed by a University Professor or Lecturer and bear that it is based on personal knowledge. All recommendations shall cease to be valid at the end of the Autumn Vacation

- (b) No recommended Student shall be admitted to free access unless he is a member of the Library, and has made the usual deposit.

4. Members of the Library Committee and readers under the second of these Additional Regulations shall be allowed to borrow ten volumes at one time, but not more.

CATALOGUES.

The General Alphabetical Catalogue may be consulted in the Catalogue Room by Readers, on application to the Librarian.

Students and Graduates who are engaged in special research will, on similar application, have access to the Classified Catalogues. These catalogues were arranged by the late Professor Dickson, who held the office of Curator of the Library, and the expenses incurred by him in connection with their preparation were defrayed by the late Dr. A. B. McGrigor.

READING-ROOM.

In connection with the Library, a Reading-Room, provided with a special collection of books of reference for the use of Matriculated Students, is open for readers, Saturdays and holidays excepted, during the winter session from 9 A.M. till 4 P.M., and during the summer session from 9 A.M. till 2 P.M.

The Room is primarily intended for readers consulting the books of the Special Collection : but so far as the accommodation will allow, students may make use of it for individual private study. The following are the principal rules applicable to the Room :—

Every Matriculated Student who shall at the beginning of the session or thereafter record (in a book kept by the Librarian) his desire to use the Reading-Room in accordance with the rules for consulting of books or private study, will receive a voucher entitling him to admission. No student will be admitted to the use of the Room without possessing a voucher.

All readers are required to abstain from talking, whispering, or any other form of distracting or disturbing others, and to enter and leave the Room (and Vestibule) with as little noise as possible. Readers shall exhibit their vouchers when asked ; and shall at once give their names and matriculation numbers, if they shall be requested to do so.

Each student, desirous of borrowing books from the Special Collection in the Vestibule, is required to fill up one of the receipt papers with his name, matriculation number, and the title of the book or books wanted, and to present it to the Assistant-Librarian in charge. Students are not permitted to have the use of more than two volumes at one time. The books received are to be used only in the Reading-Room, and are to be returned by the receiver himself into the hands of the Assistant-Librarian. The return of books by those who have to leave the room at the end of any hour is to be made not later than five

minutes before that time, and during that interval no books will be given out.

Books of reference not included in the Special Collection, but contained in the General Library, may be obtained for consultation in the Reading-Room on presenting a paper with the name and matriculation number of the reader making the request, and the title of the book wanted, to one of the Assistant-Librarians in the Library.

The Assistant-Librarian in charge, Mr. William G. Macdonald, is instructed to report at once to the Library Committee the name of any student transgressing the rules.

Donations to the University Library.

List of Donations from 1st March, 1903, to 29th February, 1904.

- Rev. Edwin A. Abbott, D.D.—Contrast: or, a prophet and a forger.—Protest against perturbed criticism. 1903.
- Académie des Sciences de Cracovie.—Bulletin international. Math.-Nat. Classe. 1903. Philol.-Hist. 1903.—Catalogue of Polish scientific literature. II. 3, 4; III. 1, 2.
- Académie de Neuchâtel.—Dessoulavy, Bacchylide et la III^{me} ode.
- Académie impériale militaire de Médecine de St. Petersburg.—Livres de centaine.
- Accademia dei Lincei, Roma.—List of proceedings and other periodicals received by the Academy.—Atti. Classe di scienze morali. Parte 2^a XI.—Rendiconti. Classe di scienze fisiche. XII. 1903. Classe di scienze morali. XII. 1903.
- Accademia Pontaniana, Roma.—Atti. XXXIII. 1903.
- Accademia delle scienze fisiche e matematiche di Napoli.—Rendiconti. Serie 3^a. IX. 1903.
- The Admiralty.—Report of the health of the Navy. 1901.—Greenwich observations. 1900.—Spectroscope results. 1900.
- The African Society.—Journal of the African Society. No. 8.
- Agent-General of Tasmania.—Progress of the mineral industry of Tasmania, June-Dec., 1902.—Walch's Tasmanian almanac. 1903.
- Mr. John Alexander.—Burns, Principles of surgery. I.—Ure, Dictionary of chemistry. 4th edition.
- James W. Allan, M.B.—Memoranda on infectious diseases.
- Professor H. B. Allen, M.D.—General considerations concerning tumours.
- An Old Student.—Seven vols. of the collected works of F. Max Müller.
- P. J. Anderson, LL.B.—Aberdeen Rectorial addresses.
- Professor Richard J. Anderson, M.D.—Training versus heredity.—Muscle moulding or training.
- Army Medical Department.—Report for 1901.
- Asiatic Society of Bengal.—Bibliotheca Indica. N.S. Nos. 983, 1015-1057.
- Australasian Association for the Advancement of Science.—Report of the ninth meeting.
- Australian Museum.—Records. IV. 8.
- Author.—Wüst, Ueber die Freiheit des Willens.
- The Author.—Doubts about Darwinism.
- The Authors.—The shambles of science.
- The Baird Trustees.—Macleod, Ministry and sacraments of the Church of Scotland. 2 copies.
- E. F. Bamber, C.E.—Lines on Queen Victoria.
- Mr. J. Millward Banks.—Letters on the new fiscal policy.
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- University of Sydney.—The Union book of 1902.—Record of the Jubilee celebrations.
- Universiteit te Utrecht.—Twenty-six dissertations.
- United Free Church of Scotland.—Third report on Foreign mission.—Report on Livingstonia Mission for 1902.
- U.S. Bureau of Education.—Report for 1900-1902. 3 vols.
- U.S. Coast and Geodetic Survey.—Annual report. 1902.—List of publications.
- U.S. Department of Agriculture.—Circulars. 8, 12, 24.—Foreign markets circular. 25.—Annual reports for 1901-2.—Report of Weather Bureau. 1900-1. II.—Chemistry bulletin. 66.—Experiment stations bulletin. 69, 121.—Record. XIV. 5, 6.—Porto Rico experiment station bulletin. 2.—Plant industry bulletin. 28, 29, 32-34.
- U.S. Geological Survey.—Geological atlas of the United States. Folios. 72-90.—Twenty-second and twenty-third annual reports. 5 vols.
- Volta Bureau, Washington.—Hitz, Dr. Joseph Claybaugh Gordon.—Report on progress of speech-teaching. And 3 other reports.
- Miss Walker.—Beethoven's sonatas. 3 vols.—Czerny's Pianoforte school. 5 vols. And 33 other vols. of music which belonged to the late Dr. Robert Walker.
- James Wallace, M.D.—Report on the health of Greenock. 1902.
- Wellcome Chemical Research Laboratories.—Publications. 33-39.—Account of the institution.
- West United Free Church, Greenock.—In memoriam Hugh Macmillan, D.D.
- Rev. Horace L. Wheeler, B.D.—Gildersleeve, Essays and studies.—Records of the early history of Boston.—Catalogue of graduates of Harvard University.—Massachusetts year book. 1850.—Official guide to Harvard University.—The College of the University of Pennsylvania.
- A. M. Williams, M.A.—Our early female novelists.—Collins' graphic English dictionary.—Scott, Ivanhoe, for use in schools.—Journal of education. 1902, 1903.—Bookman. 1902, 1903.
- John T. Wilson, M.D., D.P.H.—12th report of the Medical Officer of the county of Lanark.—Report on administration of the Rivers Pollution Act.

- Yale University.—Report of the President. 1902-3.—Record of the 200th anniversary.—Lang, Cancioneiro Gallego-Castellano. I.—Cook, Biblical quotations in Old English prose writers. 2nd series.—Scripture, Elements of experimental phonetics. Dexter, Biographical sketches of the graduates of Yale College. III.
 —Report of the Librarian. 1901-2.
 Society of Public Analysts.—The analyst. 1903.
 The Publisher.—Canadian gazette. 1903.
 The Publisher.—Labour co-partnership. 1903.
 The Publisher.—Liberty review. 1903.
 The Publisher.—Positivist review. 1903.
 James Coutts, M.A.—Shipping review. 1903.
 British Medical Temperance Association.—Medical temperance review. 1903.

DIVINITY HALL LIBRARY.

This Library is set apart for the special use of students in Divinity. It contains an extensive collection of Theological works. It is supported chiefly by an annual grant from the University Court of Seven Shillings for each student attending the Divinity classes.

The Librarian is elected annually by the students attending the Hall.

HUNTERIAN MUSEUM.

This Museum was founded by the eminent William Hunter, M.D., who was born in 1718, at Cantieswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. (See *William Hunter: Physician, Anatomist, Founder of the Hunterian Museum*, by Professor John Young, M.D.) By his will, dated 1783, he bequeathed to the Principal and Professors of the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archaeological relics, and also a sum of £8,000, the greater part of which was spent on the erection of a building for their reception and preservation.

This building, erected in 1804, became the property of the Union Railway Company, as explained at page 32. But accommodation has been provided for the collections in the new buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists mainly of two halls, the upper of which is galleried. With Dr. Hunter's collections there are incorporated the University collection of Roman inscriptions from the Antonine Vallum, and many important donations that have from time to time been received from friends of the University. Conspicuous among such

additions are the Eck collection of minerals and precious stones, the minerals and antiquities presented by Miss Brown of Lanfine, and the contents of the Zoological and Ethnological Museum formerly attached to the Andersonian University.

The Museum contains :—(1) Medical Preparations, (2) Zoological Specimens, (3) Mineral Specimens, (4) Books, Manuscripts, Coins, Paintings, and Archaeological Objects. The last section has as Curator Mr. George Macdonald, M.A., Lecturer in Classical Archaeology, with whom scholars from a distance desirous of consulting the manuscripts or medals should communicate a few days before the date of their proposed visit.

The whole Museum is under the immediate superintendence of the Museums Committee, consisting of two members of the University or others, not being members of Senate, appointed by the University Court, and of four members of Senate, appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports.

The Museum is now open to the public, free of charge, from 11 to 3 in winter, 11 to 4 in summer.

1. *Stevenson Catalogue of Greek Coins.* Pts. I. and II. By Geo. Macdonald, M.A. With 62 plates. Price £6 6s.
2. *Tituli Hunteriani: Catalogue of Roman Stones.* By James Macdonald, LL.D. Price 10s. 6d.
3. *Bellahouston Catalogue of Anatomical and Pathological Preparations.* By J. H. Teacher, M.B., C.M. 2 vols. 8vo. Price to students, 2s.

James Stevenson, Esq., of Hailie, defrayed the cost of the Catalogue of Greek Coins, and the Bellahouston Trustees that of the Anatomical Catalogue. The Catalogue of the Printed Books is completed in Manuscript. A complete Catalogue of the MSS. is being prepared for publication.

Donations to Museum.

The following donors have contributed to the Museum during the past year :—

- Mr. W. W. Carlie, Largs—Two rare silver coins of Rhegium and Tarentum.
 Society of Antiquaries of Scotland—Selection of relics from Roman station at Castlecary.
 Mr. F. Moir, Glasgow—Collection of shells.

- Mr. J. A. Clark, London—Collection of Foreign *Lepidoptera*.
 Dr. W. Gemmell, Stroud Green—Sketch of South Front of Old Hunterian Museum.
 Cambridge University Museum—*Polypterus* (male and female); *Polypterus* (young specimen with external gills); *Protopterus annectens*. [These were collected by the late Mr. J. S. Budgett, and presented at his request].
 Cambridge Zoological Laboratory—*Nautilus pompilius* (two specimens).
 Edinburgh University Natural History Department—*Metacrinus*, Japan; *Leptocephalus*.
 Professor Biles—*Octopus*, Japan.
 Professor Graham Kerr—*Nautilus pompilius*; *Lepidosiren paradoxa*; ditto (breeding male).
 Mr. Joseph Butters—*Rhina squatina* (angel fish).
 Mr. S. Finland—*Chamaeleo*.
 Mr. J. E. Foster, Cambridge—Collection of larvae of British *Lepidoptera*.
 Dr. James McQueen—*Amphibia*, Insects, etc. (Burmah).
 Dr. Ashworth, Edinburgh—*Artemia gracilis*.
 Dr. W. H. Jamieson—*Lepidoptera* (West Africa).
 Mr. Gibson—*Lepidoptera* (India).
 Valuable microscopic and other preparations have been received from Dr. Ashworth, Edinburgh; Dr. Logan Taylor, Glasgow; and Dr. G. H. F. Nuttall, Cambridge.
 The Beni Hasan Excavation Committee—A selection of xi. Dynasty Egyptian Pottery.

BOTANIC GARDEN.

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2,000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture-Room should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany—and that three Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-Room, in which the Professor of Botany delivered an annual course of Lectures during the summer months, was built; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow, had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (*Demonstrations*), found it more convenient to deliver his Lectures at the University.

The removal of the University to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-Room in the Garden being inadequate for the students attending the course of Elementary Lectures on Botany, and there being no Laboratory, Museum, or Herbarium-Room in the Garden, the Professor has continued to deliver his Lectures and to have his Laboratory at the University. Suitable buildings for the Botanical department have now been erected within the University grounds, and include Lecture Room, Museum, Herbarium, Laboratories, and other rooms.

MARINE BIOLOGICAL ASSOCIATION OF THE WEST OF SCOTLAND.

The station of the Association is situated near Keppel Pier, in the island of Cumbrae, and was opened in May, 1897. A constitution was adopted at a meeting of the Association held on 15th January, 1901. The chief object which the promoters have in view is to afford opportunities for the investigation of the Marine Fauna and Flora of the district known as the Clyde Sea Area, or of other parts of the West Coast of Scotland. A practical laboratory has been provided and equipped, and one of the tables in it, for which the University Court subscribes, is called the University Table. The nomination of students to the privilege of working at this table is made by the Senate on the report of the Professors of Zoology and Botany. Applications should be addressed to the Clerk of Senate.

IX.—GRADUATION IN THE SEVERAL FACULTIES.

EXAMINERS.

Preliminary Examinations in Arts, Science, and Medicine.

The University Court of each University annually appoints as Examiners such number of Professors or Lecturers in the Faculty of Arts in that University, and such additional Examiners as may be deemed necessary. The Preliminary Examinations in Arts, Science, and Medicine are conducted by these Examiners, under the control and supervision of a Joint-Board appointed in January of each year by the several University Courts from among the Examiners, according to a scheme of rotation prescribed in Ordinance No. 13, Section IV., as supplemented by Ordinance No. 43, Section I.

iv., as supplemented by Ordinance No. 43, Section 1. The Joint-Board holds office from the first day of February to the thirty-first day of January in the succeeding year, and sits at each University in rotation in the following order:—Edinburgh (1901-2), Glasgow (1902-3), Aberdeen (1903-4), St. Andrews (1904-5). It consists of eight Professors or Lecturers and eight additional Examiners, two Professors or Lecturers and two additional Examiners being appointed by the University Court of each University, according to the scheme printed on p. 188. In the case of a candidate at a Preliminary Examination who is permitted to offer himself for examination in any language not included in the Preliminary Examination, each University makes special arrangements for the examination of its own candidates.

Degrees in Arts.

The Examiners for Degrees in Arts are the Professors whose subjects qualify for Graduation in Arts, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

Degrees in Science.

The Examiners for Degrees in Science are the Professors whose subjects qualify for Graduation in Science, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

Degrees in Medicine.

The Examiners for Graduation in Medicine are the Professors whose subjects qualify for Graduation in Medicine, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary, such provision being made as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

No person is eligible for appointment to the office of additional Examiner, whether for Preliminary Examination or for Degrees in Arts, Science, or Medicine, who is a Professor, Lecturer, or University Assistant or Demonstrator in any Scottish University, and the appointment of any additional Examiner during the currency of his term of office to a Professorship, Lectureship, or to the office of University Assistant or Demonstrator in any Scottish University is held to vacate his office of Examiner. The periods of appointment of additional Examiners are so adjusted as to secure that all the Examiners shall not vacate their office at the same time; but no Examiner can be appointed for a longer period than four years, and no person who has held the office of Examiner for a period of three or four years is eligible for reappointment to the office of Examiner

in the same University until he has ceased to hold the office of Examiner in such University for not less than one year.

In the event of a vacancy in the office of a member of the Joint-Board, or of an Examiner or additional Examiner in Arts, Science, or Medicine, occurring otherwise than by expiration of his term of office, the person appointed in his room is appointed for the remainder of such term only.

Degrees in Law.

The Examiners for the Degree of Bachelor of Laws are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional Examiners appointed by the University Court.

The Examiners for the Degree of Bachelor of Law are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional examiners appointed by the University Court.

Degrees in Divinity.

The Examiners for the Degree of Bachelor of Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

REGULATIONS FOR GRANTING DEGREES.

I. GRADUATION IN ARTS.

REGULATIONS APPLICABLE TO ALL WHO HAVE ENTERED ON THEIR ACADEMICAL COURSE SINCE 1ST OCTOBER, 1892.

The conditions on which the Degree of Master of Arts is now conferred are regulated by Ordinances No. 11,¹ No. 44, No. 148, No. 160, and No. 168 of the Universities Commission (1889), the principal provisions of which are the following :—

I. The Academical year in each University shall commence on the first day of October. The classes shall meet for the winter session (which shall include not less than twenty teaching weeks) on such day thereafter as the Senatus of each University shall determine; and shall close not later than the tenth day of the following April.

The University Court of each University shall institute a summer session in such of the subjects or branches of subjects qualifying for graduation in Arts as may be determined by the said Court after consultation with the Senatus. Such session shall commence on such day as the Senatus of each University shall determine, and shall include ten teaching weeks at least. The classes shall be conducted by the Professors, or by Lecturers appointed under Ordinance No. 17 (Regulations as to Assistants and Lecturers).

II. The Curriculum for the Degree of Master of Arts (M.A.) shall

¹ This ordinance was printed in full in the *University Calendar* for 1892-93, pp. 477-485, and the modifications made by Ordinance No. 44 were inserted in italics in the *University Calendar* for 1894-95.

extend over not less than three winter sessions, or two winter sessions and three summer sessions.

PRELIMINARY EXAMINATION.¹

III. (1) Before entering on the Curriculum (subject to the proviso contained in Section IV., Sub-section 1) each student shall pass a Preliminary Examination in the following subjects:—

1. English.
2. Latin or Greek.
3. Mathematics.
4. One of the following :—Latin or Greek (if not already taken), French, German, Italian (or such other language as the Senatus Academicus may approve), Dynamics.

Under this sub-section the Senate has approved of (1) Japanese, (2) Spanish. Any candidate who proposes to be examined in Japanese or Spanish or in any other language than the six mentioned in the Ordinance is required to make intimation to the Senate before 1st February or 1st July for the Spring and Autumn Examinations respectively.

(2) The examination must be passed in the matters and on the standards hereinafter defined; but there shall be a higher and a lower standard in Latin and in Greek, and a higher, an intermediate, and a lower standard in Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two; subject always to the conditions relative to attendance contained in Section IV. hereof.

(3) English shall include Grammar and Composition, and the outlines of Geography and British History, and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

In the case of a foreign student, whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint-Board of Examiners may deem sufficient.

The Joint-Board has issued the following directions showing the character of the papers to be set in English:—

English will include (a) Grammar, (b) Composition, (c) Literature, (d) History, and (e) Geography.

(a) Grammar will include Analysis, Parsing, Derivation, and Correction of Sentences.

(b) Composition will include an Essay and Paraphrasing.

(c) Literature will comprise a knowledge of certain prescribed books of two or three writers. Questions requiring a general knowledge of the life and works of the greater writers will not be set; but one or two questions may be set, giving an opportunity to candidates who have read widely in English Literature to show their knowledge. The prescribed books will be:—For 1904, Shakespeare, *1st Henry IV.*; Scott, *Rob Roy*; Macaulay, *Essay on Milton*. For 1905, Shakespeare, *The Tempest*; Macaulay, *Life of Johnson*; Goldsmith, *The Vicar of Wakefield*; Gray, *Ode on a Distant Prospect*.

(d) History will include a knowledge of one of the three following periods, questions in each of which will be set in each examination, viz.: The outlines of the

¹ Supplementary Regulations issued by the Joint Board on 21st January, 1904, have been inserted in smaller type at the points in the ordinances to which they relate.

History of both England and Scotland (a) from the Roman Occupation to 1603; (b) from 1603 to the Union of the Parliaments in 1707; (c) from the Union of the Parliaments to the Reform Bill of 1832.

- (e) Geography will include a general knowledge of the Geography of the World, and a special knowledge of the Geography of the British Empire.

(4) Latin and Greek shall comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin or Greek. The higher standard shall not be lower than that presently [before October, 1892] adopted in the examination for a Curriculum of three sessions, or for the Higher Grade Leaving Certificate of the Scotch Education Department, and the lower standard shall not be lower than that presently adopted for the Lower Grade Leaving Certificate of the said Department.

The Latin examination on the higher standard will include Translation, Prose Composition, Grammar, and Sentences.

The Greek examination on the higher standard will include Translation, Sentences (or an easy passage of continuous English Prose, set either as an alternative or as a substitute), and Grammar.

The passages for translation both from Greek and Latin will include Prose and Verse.

The Latin examination on the lower standard will include Translation and Parsing, Prose Composition, Grammar, and Sentences.

The Greek examination on the lower standard will include Translation, Sentences, and Grammar.

In the Latin and the Greek papers both on the higher and lower standards, candidates are required to satisfy the Examiners both in Composition and in Translation.

Candidates who, having taken in Latin or Greek the examination on the higher standard, have failed to pass on that standard, but have obtained a percentage of marks equivalent to a pass on the lower standard, may be held by the Board to have passed the examination on the lower standard.

(5) French, German, and Italian shall comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian; and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

For the examination in French and German—

Two papers shall be set, both in French and German—an hour and a half being allowed for the first paper, and two hours for the second; the first paper will contain a passage for translation from English into French or German, with some short sentences of an idiomatic character; the second paper will contain a set of grammatical questions, two passages for translation into English (one in verse, one in prose), and a selection of literary or philological questions, from which the candidate will be allowed to choose *one only*. A higher value is attached to the first paper in both French and German.

The questions on Literature will be confined, year by year, to certain groups of authors, as in the following scheme, viz.:

FRENCH.—(i.) In April and October, 1904 (17th century)—Pascal, Descartes, Corneille, Racine, Molière, Boileau, La Fontaine, Madame de Sévigné, Bossuet, Fénelon, La Rochefoucauld, La Bruyère. (ii.) In April and October, 1905 (19th century).—Chateaubriand, Madame de Staël, Lamartine, Victor Hugo, Alfred de Musset, Alexandre Dumas, George Sand, Balzac, Prosper Mérimée, Guizot, Thiers, Mignet, Michelet.

GERMAN.—(i.) In April and October, 1904—Klopstock, Wieland, Lessing, Herder, Bürger, Voss, Friedrich Leopold Stolberg, Höltz, Leisewitz. (ii.) In April and October, 1905—Jean Paul, the Schlegels, Novalis, Tieck, Arnim, Brentano, Grillparzer, Heine, Uhland.

(6) Mathematics on the lower standard shall comprise—(a) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (b) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (c) Geometry: Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

(7) Mathematics on the intermediate standard shall include the following, in addition to the subjects included in the lower standard, viz.:—(a) Euclid: Book VI., Propositions 1–19, or Geometry equivalent thereto. (b) Algebra: Quadratic Equations, Ratio and Proportion. (c) The Trigonometry of Right-angled Triangles.

(8) Mathematics on the higher standard shall, in addition to what is included on the lower standard, comprise Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with Deductions, Quadratic Equations, Trigonometry to the Solution of Triangles inclusive, and the use of Logarithmic Tables.

In the examination in Mathematics on the higher and intermediate, and on the lower standards each question in Geometry will consist of two parts, of which one will be an easy deduction or illustrative exercise on the proposition set as bookwork.

The papers in Mathematics on the higher standard and on the intermediate standard will be devoted to the various subjects comprised in them as nearly as possible in the following proportions: two-fifths to Geometry, two-fifths to Algebra (including Arithmetic, if thought desirable), and one-fifth to Trigonometry.

Candidates for the higher standard may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

The pass-mark for candidates on the intermediate standard is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the intermediate standard; but such candidates will receive credit for any question they may answer.

The paper in Mathematics on the lower standard will be devoted to the various subjects comprised in as nearly as possible the following proportions: four-ninths to Geometry, three-ninths to Algebra, and two-ninths to Arithmetic.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

(9) Dynamics shall mean the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

The paper on Dynamics will be directed to test the candidate's knowledge of the fundamental principles of the subjects included in it. As far as possible each question will consist of two parts, one of which will be a numerical or other simple illustrative example of the principle with which the other part of the question deals. About one-seventh of the paper will be devoted to Kinematics, and the remainder of the paper will be assigned to Kinetics, Statics, and Hydrostatics in as nearly as possible equal proportions.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each section of the paper.

Dynamics shall include the following:—(a) *Kinematics*. Displacements, velocities, and accelerations of a moving point, with their compositions and resolutions. Translations of a rigid body. Relative velocity of two moving points. (b) *Kinetics*. The laws of motion. Momentum, force, energy, work—their measures in the British and C.G.S. systems of units. Change of units. Rectilinear motion of a particle under the action of constant forces. Free motion of a body under gravity, including pro-

jectiles. Atwood's machine. Impulsive forces. Direct impact of smooth spheres. (c) *Statics*. Composition and resolution of co-planar forces. Theory of co-planar couples. Conditions of equilibrium of forces in one plane. Centre of mass. Friction. Machines. Application of the principle of work to machines. (d) *Hydrostatics*. Definitions of *solid, fluid, liquid, gas*. Viscosity. Measure of the pressure at a point of fluid. Law of equable transmission of pressure. Laws of variation of pressure in heavy liquids. Resultant pressure of a heavy liquid on a plane surface, including the centre of pressure of a plane surface. Principle of Archimedes. Experimental determination of the densities of solids, liquids, and gases. Atmospheric pressure. The barometer. Boyle's Law. The siphon, pumps for liquids, air pumps, and the diving-bell.

Questions may be set which involve the Trigonometry of Right-angled Triangles.

(10) A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may *offer himself for re-examination* as often as may be necessary to *satisfy this condition*.¹

IV. (1) Attendance on any class shall not qualify for graduation, unless the whole Preliminary Examination has been previously passed. *Any student who has passed in Latin, Greek, or Mathematics on the higher standard may attend a qualifying class in such subject or subjects without having passed in the other subjects of the examination, provided always that (a) no candidate shall be allowed to present himself for examination in any subject qualifying for graduation until he has passed the whole Preliminary Examination; and (b) no student shall be admitted to a degree in Arts unless he has attended qualifying classes in the University granting the degree, or in another Scottish University, as provided by Section xxv. hereof, for three academic years after he has completed his Preliminary Examination.*¹

(2) Attendance on a class in any language included in the Preliminary Examination shall not qualify for graduation, unless the candidate, before entering the class, has passed the Preliminary Examination in that subject, and on the higher standard where a double standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in that subject; provided always that the provisions of the sub-section immediately preceding shall have been satisfied.

(3) Attendance on a class in any language not included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination.

(4) Attendance on a class of Mathematics or Natural Philosophy shall not qualify for graduation unless the candidate, before entering the class, has passed in Mathematics on the higher standard or on the intermediate standard.

V. (1) The Preliminary Examination shall be held at each University twice in each year, under such regulations as the Senatus, with the approval of the University Court, shall from time to time determine, and shall be conducted in writing.²

¹ The words in italics are taken from a supplementary Ordinance No. 44, which was approved by Her Majesty in Council on 28th May, 1894, and came into force on 1st October, 1894. The ordinance provides that the alterations on Sections III. (10) and IV. (1) shall be held to have come into force on 1st October, 1892.

² For dates of Preliminary Examinations see Table on page 195.

TO BE HELD DURING SESSION 1904-1905.

I. ARTS AND SCIENCE.

Fee.	Names to be given in and Fees paid to Assistant-Clerk (Matrieculation Office).	Subject.	Dates of Examinations and Hours at which the various Papers will be set.
10s. 6d.	5th September or 3rd March.	English (1st Paper), Higher Latin (1st Paper), -	Friday, 23rd September, 9 to 11 a.m.
		Lower Latin, -	Friday, 24th March, 12 noon to 2 p.m.
		English (2nd Paper), Intermediate and Higher Math.	Friday, 24th March, 3 to 6 p.m. Saturday, 25th March, 9 to 11 a.m.
		(1st Paper) - Lower Greek - Higher Latin (2nd Paper), - Intermediate and Higher Math.	Saturday, 25th March, 12 noon to 2 p.m. Saturday, 25th March, 3 to 6 p.m. Monday, 27th March, 9 to 11 a.m.
10s. 6d.	5th September or 3rd March.	Lower Mathematics (2nd Paper), - Higher Math.	Monday, 27th March, 12 noon to 2 p.m. Monday, 27th March, 3 to 6 p.m.
		Higher Greek (1st Paper), - Dynamics, - Higher Greek (2nd Paper), -	Tuesday, 28th March, 9 to 11 a.m. Tuesday, 28th March, 12 noon to 1.30 p.m. Tuesday, 28th March, 3 to 6 p.m.
		French (2nd Paper), German (1st Paper), German (2nd Paper), Italian (1st Paper), Italian (2nd Paper),	Wednesday, 29th March, 9 to 11 a.m. Wednesday, 29th March, 12 noon to 2 p.m. Wednesday, 29th March, 3 to 6 p.m.
			Thursday, 30th March, 9 to 11 a.m. Thursday, 30th March, 12 noon to 1.30 p.m. Thursday, 30th March, 3 to 6 p.m.

II. MEDICINE.

10s. 6d.	5th September or 3rd March.	English, - Latin, -	Friday, 24th March, 9 a.m. to 12 noon.
		Greek, -	Friday, 24th March, 3 to 6 p.m.
		Mathematics, -	Saturday, 25th March, 3 to 6 p.m.
10s. 6d.		French, - German, -	Monday, 27th March, 3 to 6 p.m. Tuesday, 28th March, 12 noon to 3 p.m. Wednesday, 29th March, 3 to 6 p.m.

1 For Women students, Miss Galloway, Queen Margaret College.

(2) The Joint-Board of Examiners to be appointed under the provisions of Ordinance No. 13 (Regulations as to Examinations) shall have power to accept the Higher Grade Leaving Certificate of the Scotch Education Department in any subject as an equivalent for the Preliminary Examination in that subject; and to accept the Lower Grade Leaving Certificate of the said Department as an equivalent for the Preliminary Examination on the lower standard in Latin, Greek, and Mathematics; provided they are satisfied that the standard of the examination, at which the said certificates were granted, is not lower than that required by this ordinance.

Under this sub-section the Joint-Board of Examiners has resolved as follows:—For the Preliminary Examination in Arts and Science Passes in the Higher and Honours Grade of the Leaving Certificate Examinations of the Scotch Education Department in Latin, Greek, and Mathematics will be accepted as equivalent to the higher standard in each of these subjects, as prescribed by the Arts Ordinance, and Passes in the Lower Grade Certificate Examinations to the lower standard; Passes in the Higher and Honours Grade in English, in Modern Languages, and in Dynamics, will be accepted as equivalent to the standard prescribed for each of these subjects by the Arts Ordinance.

(3) The Joint-Board of Examiners shall have power to determine what examinations, if any, other than those for the Leaving Certificates of the Scotch Education Department, may be accepted as equivalent to the Preliminary Examination in whole or in part, provided they are satisfied that such other examinations are in fact equivalent thereto.

Under this sub-section the Joint-Board has resolved as follows:—

(a) A Degree in Arts or in Science, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Arts or in Science, as the case may be.

(b) A Certificate of having passed in the Honours or First Division in English in the London University Matriculation Examination will be accepted as equivalent to English in the Arts and Science Preliminary Examination; and the Joint-Board also accepts, for the Preliminary Arts and Science Examination (1) London University Matriculation Mathematics as equivalent to Lower Mathematics; (2) London University Matriculation Mechanics as equivalent to Dynamics; and (3) London University Intermediate Mathematics as equivalent to Intermediate and Higher Mathematics.

(c) Oxford University Senior Local Examinations, if passed in a class of Honours, will be accepted as exempting *pro tanto* in Higher Latin, Higher Greek, French, German, and Intermediate Mathematics; also in English, provided that the candidate has passed in a class of Honours in Section 2 (English Language and Literature), and in Section 3 (History and Geography); a pass without distinction will be accepted *pro tanto* for Lower Latin, Lower Greek, and Lower Mathematics.

(d) Oxford University Higher Examination for Women will be accepted as exempting *pro tanto* for the Arts and Science in the case of Higher Latin, Higher Greek, English, and Lower Mathematics; and, if in a class of Honours, for French and German, and Higher Mathematics.

(e) Cambridge University Local Examinations:—

1. Junior Locals. The pass in a class of Honours will be accepted for

Lower Mathematics, provided the candidate has passed in Books I., II., and III. of Euclid, and in Quadratic Equations.

2. Senior Locals. The pass will be accepted as exempting *pro tanto* for Lower Latin and Lower Greek, and for Higher Mathematics; and, if in a class of Honours, for English, Higher Latin, Higher Greek, and Modern Languages.

(*f*) Cambridge University Higher Local Examinations will be accepted *pro tanto*.

(*g*) Oxford and Cambridge Schools Examination Board. Lower Certificate will be accepted for Lower Mathematics, provided the candidate has passed in three books of Euclid, and as far as Quadratic Equations in Algebra.

Higher Certificate. The pass will be accepted for Lower Latin, Lower Greek, and Lower Mathematics, provided the latter includes Elementary and Additional Mathematics; if in a class of Honours, will be accepted for Higher Latin, Higher Greek, French, German, and Higher Mathematics.

(*h*) Victoria University. The Preliminary Examination will be held as exempting from the Preliminary proper, but not from the examination required for admission to a graduating class in any language.

ORDINARY DEGREE.

VI. Candidates for the ordinary degree of Master of Arts may follow the Curriculum and take their degree in the subjects hitherto recognized for graduation, as provided by the regulations¹ contained in Ordinances Nos. 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, subject always to the preceding provisions of this ordinance; or they may vary the Curriculum for graduation under the regulations contained in the immediately succeeding sections.

VII. (1) Candidates shall attend full courses in at least seven subjects, and shall be examined on these subjects.

(2) Of these subjects four must be (*a*) Latin or Greek (not Modern Greek); (*b*) English or a Modern Language (*i.e.* French, German, Italian, or Spanish) or History; (*c*) Logic and Metaphysics, or Moral Philosophy; (*d*) Mathematics or Natural Philosophy.

(3) The remaining subjects may be selected by the candidate from the departments specified in Section IX. of this ordinance, under the following condition:—That the whole subjects taken shall include either (*a*) both Latin and Greek (not Modern Greek), or (*b*) both Logic and Moral Philosophy, or (*c*) any two of the following three subjects:—Mathematics, Natural Philosophy, and Chemistry.

VIII. (1) Each of the subjects must be studied in a full course of not less than one hundred meetings of the class on separate days, except in cases where the Senatus, with the approval of the University Court, shall have sanctioned, as qualifying for graduation, half courses of not less than fifty meetings on separate days; or where the Senatus, with the approval of the said Court, shall, having regard to the nature of the

¹ These regulations are printed on pp. 173, 174 of the *Calendar* for 1900-1901.

subject, sanction full courses of less than one hundred or of less than fifty meetings respectively.

Under this sub-section the Senate, with the approval of the University Court, has sanctioned, as qualifying for graduation, half courses in the following subjects, viz.:—Latin, Greek, Hebrew, Arabic, Mathematics, and Astronomy.

(2) Two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

Under this sub-section the Senate, with the approval of the University Court, has determined that a half course in any subject may not be combined with a half course in another subject, but only with a second half course in the same subject.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

Under this sub-section the Senate, with the approval of the University Court, has resolved that in Chemistry, Zoology, Botany, and Geology, the course of study for a Degree in Arts, and the relative proportion of lectures and laboratory or practical work, shall be as follows:—

1. Chemistry.—A systematic course of one hundred meetings of the class and a practical course of two and a half months.

2. Zoology.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

3. Botany.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

4. Geology.—One hundred meetings on separate days.

IX. The departments of study for graduation in Arts in each University shall, if adequate instruction is provided, include the following subjects, with such additions or modifications in any University as may hereafter be made by ordinance of the University Court:—

1. *Language and Literature.*

Latin.	French.	Sanskrit.	Celtic.
Greek.	German.	Hebrew.	Modern Greek.
English.	Italian.	Arabic or Syriac.	

2. *Mental Philosophy.*

Logic and Metaphysics.	Education (Theory, History, and Art of).
Moral Philosophy.	Philosophy of Law.
Political Economy.	

3. *Science.*

Mathematics.	Astronomy.	Zoology.	Geology.
Natural Philosophy.	Chemistry.	Botany.	

4. *History and Law.*

History.	Roman Law.
Archæology and Art (History of).	Public Law.
Constitutional Law and History.	

X. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the ordinary degree of Master of Arts on payment of the fees required.

DEGREE WITH HONOURS.

XI. (1) The degree of Master of Arts may be taken with Honours in any of the following Groups, in which Honours Classes shall have been established in at least two subjects:—

- (a) Classics (*i.e.* Latin and Greek, with optional subjects such as Comparative Philology, Ancient Philosophy, and Classical Archæology).
- (b) Mental Philosophy.
- (c) Mathematics and Natural Philosophy.
- (d) Semitic Languages.
- (e) Indian Languages.
- (f) English (Language, Literature, and British History).¹
- (g) Modern Languages and Literature (*i.e.*, French, German, Italian, or Spanish).
- (h) History.
- (i) Economic Science [*i.e.*, Political Economy with either (a) Moral Philosophy or (b) History as supplementary Honours Subjects].²

(2) Every Candidate shall take up at least five subjects. Two of these subjects, under separate Professors or Lecturers, must be selected from the Candidate's Honours Group; and the five subjects shall include one from each of the Departments of Language and Literature, Mental Philosophy, and Science, set forth in Section IX. of this Ordinance.

(3) Every Candidate shall attend seven Classes, taking two Classes (one of which shall be an Honours Class) in each of his Honours subjects.³

(4) A Candidate who has obtained Honours in any one Group, may, before graduating,⁴ present himself again for examination in a second Honours Group. In such a case, he shall not be required to attend more

¹ The *Senatus Academicus*, in determining the courses to be attended within the Honours Group entitled "English (Language, Literature, and British History)," and the character of the examination specified in Section XI., sub-section 1 (f), shall regard English Literature as constituting the chief subject of the Group, the linguistic and historical subjects being regarded as subsidiary thereto.

² This Group of Honours was instituted by Ordinance No. 160, issued by the Universities Commission on 10th May, 1897, and approved by Her Majesty in Council on 19th May, 1898.

³ The Senate, on 6th April, 1899, made the following regulation:—No Honours Class can be taken for graduation purposes either before or in the same session as an Ordinary Class in the same subject.

⁴ Ordinance No. 168, which was issued by the Universities Commission on 24th June, 1897, and approved by Her Majesty in Council on 19th May, 1898, enacts that, notwithstanding the provisions of this sub-section, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours Group in which he has presented himself, and the class he has obtained in the Group.

than two additional Classes, which shall be Honours Classes, in the second Group.

(5) The examination in the subjects comprised in the Candidate's Honours Group shall be of a higher standard than that required for the ordinary degree of Master of Arts. In his other subjects the standard shall be that required for the ordinary degree.

(6) The Senatus shall, subject to the provisions of Sections XVI. to XX. of this Ordinance, from time to time determine what subjects shall be comprised in each Group, what subjects may be taken in half courses, and in which Group they may be taken: Provided that no new Group shall be instituted except by Ordinance of the University Court.

(7) The provisions of Section VIII. of this Ordinance shall apply to Candidates for Honours; but, in their case, not fewer than fifty meetings, on separate days, extending over an entire winter session, shall constitute a full course for an Honours Class; and not fewer than twenty-five meetings on separate days, extending over half a winter session, or an entire summer session, shall constitute a half course.

XII. (1) Every Candidate shall include Latin, or Greek, either in his Honours Group or as one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

(2) Greek shall be compulsory for candidates for Honours in Mental Philosophy. *Candidates for Honours in Mental Philosophy who have included Latin, but not Greek, as one of the subjects in which the standard of examination is the same as that required for the ordinary degree of Master of Arts, shall be deemed to have satisfied the provisions of this sub-section, if, before they offer themselves for the Honours examination in Mental Philosophy, they shall have passed a special examination in translating into English, passages from the works of Greek philosophical authors,¹ including passages from the works of such authors not previously prescribed.²*

(3) Candidates for Honours in English, or Modern Languages and Literature, or History, or *Economic Science*³ (Groups *f, g, h, i*, of Section XI. hereof), shall include within the whole subjects taken for their degree (*a*) Logic and Metaphysics or Moral Philosophy and (*b*) Mathematics or Natural Philosophy.

(4) Every candidate shall have obtained a certificate for his attendance on the class of Latin or Greek, under sub-section (1) or (2) of this section before he offers himself for examination in his Honours group of subjects.⁴

(5) Candidates for Honours in Economic Science (Group *i*) of Section XI. hereof), who take Moral Philosophy as their supplementary Honours subject, may take a half course in the History of Civil Law and a half course in the Philosophy of Law, which, together, shall be deemed to constitute one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.⁵

¹ The following works have been prescribed, viz. (*a*), Plato's *Phaedo* or any book of the *Republic*; (*b*) Aristotle's *Ethics*, Book I.

² The words in *italics* in this sub-section are taken from Ordinance No. 148.

³ The words in *italics* are taken from Ordinance No. 160.

⁴ This sub-section is taken from Ordinance No. 148.

⁵ This sub-section is taken from Ordinance No. 160. See second note on preceding page.

XIII. (1) The whole examination in the candidate's Honours Group must be taken at one time, and the whole examination necessary for graduation with Honours must be taken within five years from the date of the candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the extension.

(2) Candidates for Honours may be examined, at any time during their Curriculum, in the three subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

XIV. (1) A candidate who has passed the examinations necessary for the ordinary degree of Master of Arts, but who has not yet graduated,¹ may present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination, and shall not be required to attend further classes:—subject always to the provisions of Section XII. hereof.

(2) No one shall be allowed to present himself a second time as a candidate for the degree of Master of Arts with Honours, who, upon examination, has failed to obtain Honours.

(3) A candidate shall be held to have presented himself who has notified his name for Examination in accordance with the University regulations. But it shall be in the power of the Senatus to relax this rule on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XV. (1) In each group there shall be three Grades of Honours, to be denominated respectively the First, Second, and Third Class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the degree of Master of Arts with Honours a Diploma shall be given setting forth the subjects in which he has taken Honours.

BOARDS OF STUDIES.

XVI. The Senatus of each University shall from time to time institute Boards of Studies corresponding as nearly as may be to the Departments of Study enumerated in Section IX. of this Ordinance.

XVII. Each Board of Studies shall consist of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the Senatus shall appoint one of the Members of the Board to be Convener thereof.

XVIII. Before the end of each winter session each Professor and Lecturer in the said Departments of Study shall submit to the proper

¹Ordinance No. 168, which was issued by the Universities Commission on 24th June, 1897, and approved by Her Majesty in Council on 19th May, 1898, enacts that, notwithstanding the provisions of this subsection, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours Group in which he has presented himself, and the class he has obtained in the Group.

Board of Studies for its approval a syllabus of the subjects and books proposed for the work of his class for the next academical year. As soon as such approval has been given, the syllabus shall be transmitted to the Faculty of Arts for its consideration. The syllabus, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

In addition to the syllabus of subjects specified in Section XVIII., the Professors, and in the case where a subject is taught by a Lecturer only, the Lecturer or Lecturers, shall submit to the proper Board of Studies a syllabus of the subjects and books to be prescribed for the examinations for the Ordinary Degree of Master of Arts in the next academical year, and for the Honours examinations in the academical year next but one.

XIX. (1) Before the end of each winter session each Board of Studies shall prepare a scheme defining for the academical year next but one following, the classes which shall be deemed to be Honours Classes, and the subjects and courses of reading for Honours in its department, and shall report the same to the Faculty of Arts for its consideration. The scheme, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

(2) Each Board shall in like manner make recommendations through the Faculty of Arts to the Senatus in regard to the half courses which may be sanctioned under the provisions of this ordinance, and the Lectures which may be given on special subjects.

XX. The Principal and the Dean of the Faculty of Arts shall be *ex-officio* Members of each Board of Studies. The Convener shall preside, and, in his absence, each meeting shall appoint its own Chairman, and every Chairman shall have a deliberative, and, in cases of equality, a casting vote.

GENERAL.

XXI. In the case of a foreign student whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint Board of Examiners may deem sufficient. In the case of a student whose native language is other than European, the Senatus may accept as an alternative to Latin or Greek any other classical language, such as Sanskrit or Arabic, subject always to the provisions of Section IV., Sub-section 3 hereof.

XXII. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XXIII. The examination in all the languages in the Curriculum shall, as far as possible, be on the same standard in examinations for the same degree, and shall in all cases test the candidate's knowledge of the history and literature of the several countries.

XXIV. A candidate for the degree of Master of Arts shall not be deemed to have attended a class as part of the Curriculum for that

degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XXV. A student, who has given attendance at classes recognized as qualifying for graduation during one or more sessions in any one or more of the Scottish Universities, may complete his Curriculum by giving attendance during the remainder of his course in another Scottish University, and may proceed to a degree in the latter University in the same way, in all respects, as if the previous part of his Curriculum had been taken therein: Provided always that every such student shall be bound to produce, to the satisfaction of the Senatus of the latter University, certificates of his having passed the Preliminary Examination, and of his attendance at the former University or Universities, and shall be examined in all the subjects necessary for a degree of Master of Arts by the Examiners of the University in which he completes his Curriculum, and in which alone he shall be allowed to graduate; and that no such student shall be admitted to a degree in any University unless he has given attendance in such University during the last winter session of his Curriculum, and one other winter session or two summer sessions.

XXVI. A candidate for the degree of Master of Arts with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary degree of Master of Arts, receive from them a certificate of having passed in such subject, which shall count *pro tanto* as part of the examination required under the regulations for the ordinary degree of Master of Arts.

XXVII. The degree of Master of Arts shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XXVIII. A student who, previous to 1st October, 1892, commenced his course of study with a view to graduation in Arts in any of the Scottish Universities under the regulations¹ in force at the time in such University, may complete his course and become a candidate for the degree of Master of Arts, with or without Honours, in conformity with such regulations. And any such student who has passed the examination hitherto required for admission to a Curriculum of three sessions shall, if he desire to come under the regulations of this Ordinance, be exempted from the Preliminary Examination herein required.

XXIX. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.

Attendance on classes in the Faculty of Arts in which the teaching is on the standard at present recognised for the classes hitherto known as Junior or Middle Classes, shall in no case qualify for graduation.

XXX. It shall be competent for the University Court in each University to discontinue the Junior Classes, or Middle Classes, where such exist, in Latin, Greek, and Mathematics, when, in the opinion of the Court, the provision for Secondary Education in schools throughout the country is sufficient to render such classes no longer necessary.

¹ These regulations may be found at pp. 172, 174 of the *University Calendar* for 1900-1901, and in the *Calendars* for preceding sessions.

TABLE OF SUBJECTS OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS, ACCORDING TO THE DIFFERENT CLASSES OF DISTINCTION WHICH CANDIDATES MAY HAVE IN VIEW.

The Examination Questions set in April, 1904, in the several Departments and Subjects will be found towards the end of the *Calendar*.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
	<p>October, 1904.</p> <p>VIRGIL, <i>Aeneid</i>, Book IX.</p> <p>PROPERTIUS, I-IV.</p> <p>HORACE, <i>Satires</i>, Book II.</p> <p>TACITUS, <i>Annals</i>, XIII.</p> <p>CICERO, either (a) <i>Phil.</i> I, II, or (b) <i>Letters</i>, not less than sixty consecutive pages of Tyrell's Selection.</p> <p>ROMAN ANTIQUITIES (Ramsay, Caps. II to VIII inclusive, and Cap. XI). ROMAN HISTORY from B.C. 100 to B.C. 8 (Howe and Leigh's <i>History of Rome</i>).</p> <p>Unseen translation.</p> <p><i>Note</i>.—Proficiency in Latin Prose Composition and in Grammar is indispensable. A knowledge of the matter of the books read is required, so as to enable a student to explain and comment on the text, and explain allusions.</p>	<p>October, 1905, and afterwards till further notice.</p> <p>VIRGIL, <i>Georgics</i>, I-III., and <i>Aeneid</i>, III-VI.</p> <p>HORACE, the <i>Satires</i> and <i>Epistles</i> with <i>Ars Poetica</i>.</p> <p>And any two (or more) of the following combinations:</p> <p>(a) LUCRETIVS, Books I, II (or III and IV to line 1019), with a play of PLAUTUS.</p> <p>(b) JUVENAL (the whole excepting <i>Sat.</i> II, VI, and IX).</p> <p>(c) PERSIUS, with Sellar's Selections from Martial, Books V-VIII.</p> <p>(d) CATULLUS (Clarendon Press Selection) and PROPERTIUS (Ramsay's Selection).</p>
LATIN	<p>April and October, 1905.</p> <p>VIRGIL, <i>Aeneid</i>, Book VI.</p> <p>HORACE, <i>Odes</i>, Books I, II, III, IV.</p> <p>HORACE, <i>Satires</i>, Book II.</p> <p>TACITUS, <i>Annals</i>, XIII.</p> <p>LIVY, Book VI.</p> <p>ROMAN ANTIQUITIES (Ramsay, Caps. II to VIII inclusive, and Cap. XI). ROMAN HISTORY, from B.C. 753 to B.C. 241 (Howe & Leigh's <i>History of Rome</i>).</p> <p>Unseen translation.</p> <p><i>Note</i>.—Proficiency in Latin Prose Composition and in Grammar is indispensable. A knowledge of the matter of the books read is required, so as to enable a student to explain and comment on the text, and explain allusions.</p>	<p>PROSE.—</p> <p>CICERO, the <i>Philippic Orations</i>, I-VI, or Tyrell's <i>Cicero in his Letters</i> (Macmillan) the whole.</p> <p>LIVY, I-III, or XXI-XXIII.</p> <p>TACITUS, <i>Annals</i>, XI-XIV.</p> <p>With Latin Composition, History, and Antiquities, etc. Passages also from Books not prescribed will be set.</p> <p>Candidates may profess any extra books they please. A passage for translation into Latin Elegiac verse (voluntary) will be set.</p>

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
	<p>October, 1904.</p> <p>HOMER, <i>Odyssey</i>, XVIII, XIX, or HERODOTUS, V. DEMOSTHENES, I III; <i>Olynthiacs</i> 1-III; <i>On the Chersonese</i>; <i>On the Peace</i>. EURIPIDES, <i>Hippolytus</i>. ARISTOPHANES, <i>Plutus</i>. HOLM'S <i>History of Greece</i>, Vol. II, and Vol. III. Unseen Translation and Prose Composition, Greek Grammar, Literature, and Antiquities.</p>	<p>April, 1899, and afterwards till further notice.</p> <p>HOMER, <i>Iliad</i>, I, VI, IX, XVI, XXII; and <i>Odyssey</i>, VI, X, XI, XIV, XXIII. DRAMA. AESCHYLUS, <i>Agamemnon</i>, and SOPHOCLES, <i>Antigone</i>. HISTORY. EITHER THUCYDIDES, I, or HERODOTUS, VII. PHILOSOPHY. PLATO, either <i>Phaedo</i> or <i>Republic</i>, II, IV, and V, to page 466, omitting pages 458-461 (- Chap. I-XIII, omitting VIII and IX); ARISTOTLE, either <i>Poetics</i>, omitting Chap. XX and XXI, or <i>Politics</i>, I-II, 6 inclusive. Two ADDITIONAL BOOKS¹ to be chosen by the Candidate subject to the special approval of the Professor, which must be applied for at least Three Months before the Examination. By a Book is meant an amount of continuous Prose equal to a Book of Herodotus or Thucydides, or an amount of continuous Poetry equal to <i>two</i> plays. Besides passages for translation from the above books, Questions will be set upon the Text, Interpretation, and Subject Matter. A pure and accurate English style in translation is considered of the highest importance. Composition and Unseen Translation. A general knowledge of History, Antiquities, Literature, and Grammar is also required. Certain questions will be set with special regard to the Classical Archaeology Class.</p>
GREEK	<p>April and October, 1905.</p> <p>HOMER, <i>Iliad</i>, VI. SOPHOCLES, <i>Philoctetes</i>. HERODOTUS, Book VII. THUCYDIDES, Book IV. BURY'S <i>History of Greece</i>. Unseen Translation and Prose Composition, Greek Grammar, Literature, and Antiquities.</p>	

¹ Candidates are required to bring with them to the examination clean texts of the Additional Books which they profess. The paper will contain only a reference, and not the passage printed in full.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
<p>ENGLISH LITERATURE</p>	<p>October, 1904. For students of 1903-4 :—See Syllabus for Calendar, 19.3-4.</p> <p>April and October, 1905. The subjects prescribed for study in the class. See p. 72. Students are advised to present themselves at the April or the October examination immediately following their Course, as the subjects studied in the class will be changed from year to year.</p>	<p>The subjects of examination in English¹ (Language, Literature, and British History) will be as follows :—</p> <p>I. LANGUAGE.—Anglo-Saxon and Middle-English, with Sweet's <i>Anglo-Saxon Reader</i> and Morris and Skeat's <i>Specimens of Early English</i>, Parts 1 and 2; Gregory Smith's <i>Specimens of Middle Seals</i>.</p> <p>II. LITERATURE.—(1) General History of English Literature. (2) Chaucer. (3) Shakespeare. (4) A Dissertation on some subject approved by the Professor; the dissertation to be sent in to the Clerk of Senate not less than a month before the first day of the examination at which the candidate presents himself.</p> <p>III. HISTORY.—British History from 1485 to 1603, with special reference to the following books :—More's <i>Utopia</i>; Knox's <i>History of the Reformation</i>, Books I. and II.; <i>Voyages of Elizabethan Seamen</i> (Selections by E. J. Payne, vol. I.); or "The Renaissance and Reformations in English History," dealing with these movements, more especially in the 14th and 16th centuries. The books prescribed are :—Langland's <i>Vision of Piers Plowman</i> (first seven passus); More's <i>Utopia</i>; Latimer's <i>Sermons before Edward VI.</i>; Hooker's <i>Eccelesiastical Polity</i> (Books I-IV).</p>

¹ See p. 199, and first note at foot of page.

FRENCH

April and October, 1904.

- I. Translations into and from French.
- II. Questions in Grammar: The French Syntax; History of the French Language. Text-book: A. Darmesteter, *Grammaire historique de la Langue française*.
- III. Essay in French on the subjects of the Class Lectures during Session 1903-4. Books prescribed: Molière, *Théâtre*; Demogéot, *Textes classiques du 18^e et du 19^e siècle*.
- IV. Oral Examination.—(1) Reading, translation, and explanation of a text studied in the class (see syllabus for work of class). (2) Conversation in French on the subjects of the Class Lectures.

April and October, 1905.

- I. Translations into and from French.
- II. Questions in Grammar: The French Syntax. History of the French Language. Text-book: A. Darmesteter, *Grammaire historique de la Langue française*.
- III. Essay in French on the subjects of the Class Lectures. Books prescribed: Corneille, *Le Cid*, *Polycrète*; Racine, *Andromaque*, *Iphigénie*; Molière, *Tartuffe*.
- IV. Oral Examination.—(1) Reading, translation, and explanation of a text studied in the class (see syllabus for work of class). (2) Conversation in French on the subjects of the Class Lectures.

April and October, 1905.

- I. Translations from Old French and from English into Modern French. Translations into English.
- II. Essay in English on Historical French Grammar. Text-book: A. Darmesteter, *Grammaire historique de la Langue française*.
- III. and IV. Essays in French on French Literature (a) in the 17th century, (b) from 1800 to 1850.
- V. Oral Examination—(1) Reading, Translation, and explanations of a text studied in the class. (2) Interrogations on French Literature (see III. and IV.). (3) History of French Civilisation in the 19th century.

April and October, 1906.

- I. Translations from Old French and from English into Modern French. Translations into English.
- II. Essay in English on Historical French Grammar. Text-book: A. Darmesteter, *Grammaire historique de la Langue française*.
- III. and IV. Essays in French on French Literature (a) General History, (b) Special Study of one of the following periods: (1) The Middle Ages, (2) The XVI. and XVII. centuries, (3) The XVIII. and XIX. centuries.
- V. Oral Examination—(a) Reading, Translation, and Explanation of a text selected from one of the following books:—Gaston Paris, *Chanson de Roland*, *Extrait des Chroniques françaises*, or Jeanroy, *Montaigne's Essais*; Pellissier, *Extraits des poètes français du X^{VI} siècle*; (b) A question to be answered on a particular subject of the special period selected by the candidate, the subject being approved by the Lecturer at least a month before the Examination takes place; (c) French History in the XIX. century.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
GERMAN	<p>October, 1904.</p> <p>(1) Translation from and into German. (2) The Grammar Lectures. (3) The works read in the Class; in addition, <i>Guaran</i> and <i>Das Nibelungenlied</i> (Reclam). (4) General Outlines of German Literature: the two Classical periods. (5) Oral Examination.</p> <p>April and October, 1905.</p> <p>(1) Translation from and into German. (2) The Grammar Lectures. (3) General Outlines of German Literature: the chief classical period. (4) Goethe, <i>Emont</i>; Schiller, <i>María Stuart</i>; Kleist, <i>Michael Kohlhaas</i>; Lessing, <i>Manon von Barthelm</i>; Freytag, <i>Der Staal Friedrich's des Grossen</i>. (5) Oral examination.</p>	<p>October, 1904.</p> <p>I. Translation from English and Middle High German into Modern German; Historical German Grammar.</p> <p>II. Middle High German (a) either <i>Der arme Heinrich</i>, or <i>Iwein</i>; (b) <i>Walther von der Vogelweide</i>, or <i>Das Nibelungenlied</i>; Elementary Gothic, or Old High German.</p> <p>III. General History of German Literature to the year 1832, with special knowledge of the Classical periods.</p> <p>IV. Oral examination.</p> <p>Books prescribed: Wright, <i>Middle High German Primer</i>; Golther, <i>Der Nibelunge Not</i>; Paul, <i>Mittelhochdeutsche Grammatik</i>; Pfeiffer, <i>Iwein</i>; Guntter, <i>Walther von der Vogelweide</i>; Juntzen, <i>Gothische Sprachdenkmäler</i>; Kluge, <i>Geschichte der deutschen National-Literatur</i>; Scherer, <i>History of German Literature</i>.</p> <p>April and October, 1905.</p> <p>I. Translation from English and Middle High German into Modern German; Historical German Grammar.</p> <p>II. Middle High German (a) either <i>Der arme Heinrich</i>, or <i>Iwein</i>; (b) <i>Walther von der Vogelweide</i>, or <i>Das Nibelungenlied</i>, or Gothic, or Old High German.</p> <p>III. General History of German Literature to the year 1832, with special knowledge of the Classical periods.</p> <p>IV. Oral Examination.</p> <p>Books prescribed: Wright, <i>Middle High German Primer</i>; Paul, <i>Mittelhochdeutsche Grammatik</i>; Pfeiffer, <i>Iwein</i>, <i>Das Nibelungenlied</i>, <i>Walther von der Vogelweide</i>; Kluge, <i>Geschichte der deutschen National-Literatur</i>; Scherer, <i>History of German Literature</i>; Wright, <i>Gothic Grammar</i>; Braune.</p> <p>April and October, 1906.</p> <p>I. Translation from English and Middle High German into Modern German; Historical German Grammar.</p> <p>II. Middle High German (a) either <i>Der arme Heinrich</i>, or <i>Iwein</i>; (b) <i>Walther von der Vogelweide</i>, or <i>Das Nibelungenlied</i>, or Gothic, or Old High German.</p> <p>III. General History of German Literature to the year 1832, with special knowledge of the Classical period.</p> <p>IV. Oral examination.</p> <p>Books prescribed: Wright, <i>Middle High German Primer</i>; Paul, <i>Mittelhochdeutsche Grammatik</i>; Pfeiffer, <i>Iwein</i>, <i>Das Nibelungenlied</i>, <i>Walther von der Vogelweide</i>; Kluge, <i>Geschichte der deutschen National-Literatur</i>; Scherer, <i>History of German Literature</i>; Wright, <i>Gothic Grammar</i> and <i>Old High German Grammar</i>; Bohagel, <i>Historical Grammar of the German Language</i>.</p>

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
<p>HEBREW</p>	<p>October, 1904.</p> <p>The First Book of Samuel. Psalms CXX.—CXXXIV. The Book of Isaiah XXI.—XXXIX. The History of Israel, from the schism of the kingdom to the downfall of Jerusalem. Hebrew Archaeology ; History of the Masoretic Text (Weir's <i>Short History</i>). Introduction to the Books prescribed. Unseen translation ; unpunctuated text to be pointed and translated ; translation from English into Hebrew ; and Grammar, Syntax, and Accents.</p>	<p>The two Books of Samuel. Psalms XLII.—LXXII. The Book of Job. The treatise <i>Aboda Zara</i>. Peternann's Selections from the Targums. History and Antiquities of Israel to the fall of the Jewish State. Outline History of Jewish Literature to the close of the Talmud. Composition and unseen Translation. Comparative Grammar of the Semitic Languages.</p>
	<p>April and October, 1905.</p> <p>The Second Book of Samuel. Psalms I.—XLI. The Book of Job I.—XIV. The History of Israel, from the foundation of the monarchy to the downfall of Jerusalem. Hebrew Archaeology ; History of the Masoretic Text (Weir's <i>Short History</i>). Introduction to the books prescribed. Unseen translation ; unpunctuated text to be pointed and translated ; translation from English into Hebrew ; and Grammar, Syntax, and Accents.</p>	

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
ARABIC	<p>Qorān. The Suras contained in Nallino's <i>Chrestomathia Korani Arabica</i>. The Prose Extracts contained in Brünnow's <i>Chrestomathie aus Arabischen Prosaschriftstücken</i>. Nöldeke's <i>Delectus Veterum Carminum Arabicorum</i>, pp. 53-63, and 110-114. History and Literature:—Sale's Preliminary Dissertation on the Koran. History of the Arabs and their literature to the death of the Caliph Othman. Unseen translation; unpunctuated text to be pointed; translation from English into Arabic; Grammar, Syntax, and Prosody.</p>	<p>Qorān: Nallino's <i>Chrestomathia</i>; Al Fakiri (Derenbourg's Edition) pp. 101-458; Hariri, Preface and first four Maqāmāt; Majānī 'l Adab, Vol. VI., pp. 187-191, 201-208, 264-270, 286-312. History of the Caliphate to the fall of Bagdad.</p>
Logic	<p>The Class Lectures. Berkeley's <i>Principles of Human Knowledge</i> (in Fraser's <i>Selections from Berkeley</i>).</p>	<p>October, 1904, and until further notice. Ordinary and Advanced. Candidates will be expected to have read some of the larger modern treatises on Logic, such as Mill, Venn, Sigwart, or Bosanquet, and a treatise on Psychology such as Stout's <i>Analytic Psychology</i> or James's <i>Principles of Psychology</i>. (b) Metaphysics: (1) Kant's <i>Kritik of Pure Reason</i>. (2) Two of the following subjects, one to be a subject in Greek Philosophy and one in Modern Philosophy:—(i.) History of Greek Philosophy up to Aristotle; (ii.) Aristotle and the Post-Aristotelian systems (exclusive of Neo-Platonism); (iii.) Descartes and Cartesianism, Spinoza and Leibniz; (iv.) Locke, Berkeley and Hume; (v.) Hegel's smaller <i>Logic</i> (Wallace's translation.)</p>

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
MORAL PHILOSOPHY	The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; the <i>Republic</i> of Plato (translated by Davies and Vaughan), and Janet and Séailles, <i>History of the Problems of Philosophy</i> , vol. II., part II.	<p>Candidates for Honours will be examined in:—(1) The Professor's Lectures; (2) Aristotle's <i>Ethics</i> (omitting Books VII and VIII); Aristotle's <i>Politics</i>, Books I–IV, and, in connection therewith, the History of Ethical Thought in Greece previous to Aristotle; (3) Spinoza's <i>Ethics</i>; (4) The Ethical Theory of Kant, together with Caird's <i>Philosophy of Kant</i>, Books II, III, IV, and Green's <i>Prolegomena to Ethics</i>; (5) the general history of Modern Idealism.</p> <p>Candidates are, in addition, expected to offer for examination some book, subject, author, or period; or to submit a thesis on a subject in Philosophy, <i>either in Logic or in Moral Philosophy</i>, such thesis to be lodged by the candidate when entering his name for examination.</p>
POLITICAL ECONOMY	The Lectures and Text-books of the session in which the student has attended the class.	<p>In 1905 and until further notice the subjects of examination for Honours in ECONOMIC SCIENCE will be as follows:—</p> <p>I. Political Economy. The subjects of the Class Lectures, Ordinary and Advanced. Prescribed books: Bosanquet, <i>Philosophical Theory of the State</i>; Marshall, <i>Principles of Economics</i>; Bastable, <i>Public Finance</i>; Seligman, <i>Essays in Taxation</i>; Bagehot, <i>London Street</i>; Keynes, <i>Scops and Method of Political Economy</i>; Cunningham and MacArthur, <i>Outlines of Political Economy</i>; History: Ingram, <i>History of Political Economy</i>; Nicholson, <i>Money and Monetary Problems</i>; Goschen, <i>Foreign Exchanges</i>; Memoranda on Classification and Incidence of Imperial and Local Taxes (Blue-book), pp. 68–175; <i>British and Foreign Trade and Industry</i> (Blue Book). Candidates will be required to submit a thesis on some subject to be approved by the Professor.</p>
HISTORY OF CIVIL LAW	The Class Lectures (see page 127).	<p>II. <i>Either (a) Moral Philosophy</i>—see the regulations for Honours in Moral Philosophy <i>ut supra</i>.</p>
PHILOSOPHY OF LAW	Holland's <i>Jurisprudence</i> (any edition after the fourth). Maine's <i>Ancient Law</i> . Miller's <i>Philosophy of Law</i> .	<p>Or (b) History. British History to 1880, with especial reference to the economic condition of England. Prescribed books: <i>Walter of Henry</i> (ed. E. Laund); <i>The Libell of English Policie</i> (Political Songs, vol. ii. in Rolls Series); <i>The Discourse of the Commonwealth of this Realm of England</i> (ed. E. Lamond); <i>Mun's England's Treasure by Foreign Trade</i> (ed. Ashley); <i>Ilely Hutchinson's Commercial Restraints of Ireland</i> (ed. Carroll); <i>Petty's Treatise of Taxes and Contributions</i> (ed. Hull).</p>

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
EDUCATION	<p>October, 1904.</p> <p>The Class Lectures; Adams's <i>Herbartian Psychology applied to Education</i>, Chaps. II., III., VI., VII., X.; Davidson's <i>Aristotle and the Ancient Educational Ideals</i>, pp. 42-51, 61-113, 134-202, 216-224; Ascham's <i>Scholmaster</i>, pp. 11-105; Milton's <i>Tractate on Education</i>; Locke's <i>Thoughts on Education</i>, Sects. 31-200 (pp. 20-177); Rousseau's <i>Emile</i>, Bks. II., III.; Herbert Spencer's <i>Education</i>, Chaps. I., II., III.; Fitch's <i>Lectures on Teaching</i>, Chaps. IV., VI., XV.</p> <p>April and October, 1905.</p> <p>The Class Lectures; Bosanquet, <i>Education of the Young in the Republic of Plato</i>; Burnet, <i>Aristotle on Education</i>, pp. 1-11, 84-141; Adams, <i>Herbartian Psychology applied to Education</i>, chaps. II., III., IV., VI., X.; Herbert Spencer, <i>Education</i>; Thuring, <i>Theory and Practice of Teaching</i>.</p>	
		<p><i>Second and Third Class.</i>—In addition, Plane Trigonometry; Analytical and Geometrical Conics, and Differential and Integral Calculus.</p> <p><i>First Class.</i>—In addition, Spherical Trigonometry, Solid Geometry, Differential and Integral Calculus, Differential Equations.</p>
MATHEMATICS	<p>Euclid, First Six Books, and Book XI, 1-21. Analytical Geometry of straight line and circle.</p> <p>Algebra, including Quadratic Equations, Progressions, and Binomial, Exponential, and Logarithmic Theorems.</p> <p>Plane Trigonometry, including the Solution of Triangles by the aid of Logarithmic tables.</p>	<p>Higher Dynamics (Statics and Kinetics of a particle and of a rigid body). The special subjects treated in the Higher Natural Philosophy Class during the session of attendance, with one of the following :—Hydro-dynamics, Conduction of Heat, Magnetism and Electricity, Light, Sound, Elasticity.</p>
NATURAL PHILOSOPHY	<p>The subjects explained in the class, Dynamics, Acoustics, Heat, Light, Magnetism, and Electricity.</p>	
ASTRONOMY	<p>The Professor's Lectures during the session or sessions in which the student has attended the class, and Popular Astronomy.</p>	

	FOR ORDINARY DEGREE.	FOR HONOURS.
<p>CHEMISTRY</p>	<p>Theory : Principles of Chemistry, Chemistry of the Non-Metallic and the Principal Metallic Elements. Outlines of Organic Chemistry. Practical : Inorganic preparations. Qualitative analysis, including mixtures. Text-books : Newth's <i>Inorganic Chemistry</i> or Bloxam's <i>Chemistry</i>; Ramsay's <i>Modern Chemistry</i>; Perkin and Kipping's <i>Organic Chemistry</i> or Renssler's <i>Organic Chemistry</i>.</p>	
<p>ZOOLOGY</p>	<p>The Elementary Lectures and Practical Work. Text-books by Shipley and MacBride; Marshall & Hurst; Wallace's <i>Darwinism</i>.</p> <p>An adequate knowledge will be expected of the following natural orders of Phanerogams : Taxaceæ, Pinaceæ; Junaceæ, Liliaceæ, Amarillidaceæ, Iridaceæ, Araceæ, Cyperaceæ, Gramineæ, Alismaceæ, Potamogetonaceæ, Orchidaceæ; Salicaceæ, Cupuliferae, Urticaceæ, Polygonaceæ, Chenopodiaceæ, Caryophyllaceæ, Ranunculaceæ, Nymphaeaceæ, Cruciferae, Papaveraceæ, Violaceæ, Hypericaceæ, Droséraceæ, Malvaceæ, Geraniaceæ, Euphorbiaceæ, Umbelliferae, Saxifragaceæ, Rosaceæ, Leguminosæ, Loranthaceæ; Ericaceæ, Primulaceæ, Apocynaceæ, Boraginaceæ, Solanaceæ, Scrophulariaceæ, Labiatae, Rubiaceæ, Valerianaceæ, Campanulaceæ, Compositae.</p> <p>The following books are suggested : Strasburger, <i>Text-Book of Botany</i> (second English edition); Scott, <i>Structural Botany</i>; Willis, <i>Flowering Plants and Ferns</i>; Hooker, <i>Student's Flora of the British Islands</i>.</p>	
<p>BOTANY¹</p>		

¹ The examination in this and the two preceding subjects will be oral and practical, as well as by written papers.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
History	The Outlines of the History of England and Scotland to 1880.	<p>Candidates will be examined in the following subjects:—</p> <p>(1) British History to 1880. This subject includes the History of England and Scotland, the History of Ireland from the reign of Henry II., and the History of the Colonial Empire of Great Britain. (2) The General History of the English Constitution. (3) The Constitutional Law and Custom of Great Britain, France, and the United States of America. Prescribed books: Dicey, <i>Law of the Constitution</i>; Anson, <i>Law and Custom of the Constitution</i>; Bodley, <i>France</i>; Bryce, <i>American Commonwealth</i>. (4) The growth of the English Constitution to the close of the reign of Edward I. Prescribed book: Stubbs, <i>Select Charters</i>. (5) One of the following periods of Foreign History at the choice of the Candidate (a) 800-1272, (b) 1453-1648, (c) 1740-1878.</p> <p>Candidates may, in addition, submit through the Professor of History a thesis on some subject of British or Foreign History to be approved by the Board of Examiners for Honours in History. This should, as far as possible, be based on the leading original authorities on the subject of which it treats. Such thesis, when offered, will be considered as forming an integral part of the examination.</p>
CONSTITUTIONAL LAW AND HISTORY	The Class Lectures with Taswell-Langmead's <i>English Constitutional History</i> and Dicey's <i>Law of the Constitution</i> .	
ROMAN LAW	Institutes of Justinian (ed. Moyle or Sanders), and the Class Lectures. <i>Note</i> .—Candidates who aim at a degree in Law are recommended, in addition to the above, to profess <i>Dig.</i> , Lib. XVIII, Tit. I. The title is translated and annotated by Mackintosh.—Roman Law of Sale.	

ORDINARY DEGREE OF M.A.

The following directions may be helpful to a Student in arranging his course :

- I. *A Student who has not passed the whole Preliminary Examination, but who has passed the Higher Standard in either Latin or Greek or Mathematics, may attend the qualifying class in that subject, but may not offer himself for examination in it until he has passed the whole Preliminary Examination.*

He cannot, however, proceed to Graduation until he has attended qualifying classes in the University for three academic years after he has completed his Preliminary Examination.

- II. *A Student who has passed the whole Preliminary Examination must attend full courses in at least seven subjects, spread over at least three years, and must be examined in these subjects.*

Of these subjects *three* must consist of one from each pair of the following alternatives :

- (1) Latin or Greek.
- (2) Logic or Moral Philosophy.
- (3) Mathematics or Natural Philosophy.

The *fourth* subject must consist of any of the above not already taken, or of Chemistry.

The *fifth* subject must be either English or a Modern Language, or History.

The *sixth* and *seventh* subjects may consist of any one not already taken, from those enumerated in Section IX. of the Ordinance, and for which teaching is provided.

- III. Students are advised to attend the qualifying classes which they select, as far as possible according to the following scheme :

First Year.	Second Year.	Third Year.	Fourth Year.
Any of the following: Latin. Greek. French. German. Italian. History. Mathematics. Chemistry. Zoology. Botany. Geology.	Any of the former not already taken, together with Logic. Political Economy. Natural Philosophy. Hebrew. Arabic. English.	Any of the former not already taken, together with Moral Philosophy. Education. Constitutional Law. Roman Law. Astronomy.	Any of the former not already taken.

Caution.—Students who desire to attend a class in any Language other than Latin or Greek or English, must be careful,

In the case of French, German, or Italian, that they have passed the Preliminary Examination ; and

In the case of Hebrew, Arabic, or Syriac, that they have passed a specially qualifying Examination. For Hebrew and Arabic preparatory classes are held, and may be taken in the Students' first year.

For *Half-courses* see Section viii. (1) and (2) of the Ordinance.

DEGREE OF M.A. WITH HONOURS.

Students who propose to graduate with Honours may with advantage consult the following synopsis of the conditions attaching to the several Groups of Honours:—

I. The Degree of M.A. with Honours may be taken at present in any of the following *Groups*, there being two subjects in each Group:

- (a) Classics, viz. $\begin{cases} (1) \text{ Latin.} \\ (2) \text{ Greek.} \end{cases}$
- (b) Mental Philosophy, viz. $\begin{cases} (1) \text{ Logic.} \\ (2) \text{ Moral Philosophy.} \end{cases}$
- (c) Mathematics and Natural Philosophy, viz. $\begin{cases} (1) \text{ Mathematics.} \\ (2) \text{ Natural Philosophy.} \end{cases}$
- (d) Semitic Languages, viz. $\begin{cases} \text{Hebrew.} \\ \text{Arabic.} \end{cases}$
- (e) [Indian Languages.]
- (f) English, viz. $\begin{cases} (1) \text{ English Language and Literature.} \\ (2) \text{ British History.} \end{cases}$
- (g) Modern Languages, viz. $\begin{cases} (1) \text{ French.} \\ (2) \text{ German.} \end{cases}$
- (h) History, viz. $\begin{cases} (1) \text{ History.} \\ (2) \text{ Constitutional Law and History.} \end{cases}$
- (i) Economic Science, viz. $\begin{cases} (1) \text{ Political Economy.} \\ (2) \text{ Moral Philosophy, or History.} \end{cases}$

II. *Conditions of Examination:*

- (1) The whole examinations necessary for graduation with Honours must be taken within five years from the date of the Candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown.
- (2) The Candidate is examined in at least five subjects. (a) *Two* of these are his two *Honours* subjects (e.g. Logic and Moral Philosophy, if his group is Mental Philosophy). The examinations in the Honours subjects must be taken at one time, and not until the Candidate has obtained his certificate of attendance on the ordinary class of Latin or Greek. (b) In the other *three* subjects the examination is that for the *Ordinary* degree. The Candidate may offer himself for examination in them, together or apart, at any time or times during his curriculum, after he has attended the appropriate classes.
- (3) Under the restrictions noted below [see (4) and III. (2)], the Candi-

date may choose his three Ordinary degree subjects from the following list :

Latin.	Logic and Metaphysics.	Chemistry.
Greek.	Moral Philosophy.	Zoology.
English.	Political Economy.	Botany.
French.	Education (Theory,	Geology.
German.	History, and Art of).	History.
Italian.	Mathematics.	Constitutional Law and History.
Hebrew.	Natural Philosophy.	Civil, <i>i.e.</i> Roman Law.
Arabic.	Astronomy.	

- (4) Candidates in the various Honours Groups are restricted in their choice among the Ordinary Degree subjects to the following extent. They must choose

In Group (a) *Classics*: one subject from each of the following sets of Ordinary classes:

- (i) Logic, Moral Philosophy, Political Economy, Education.
- (ii) Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany, Geology.
- (iii) Any subject for the Degree except the two already chosen.

In Group (b) *Mental Philosophy*: one subject from each of the following sets of Ordinary classes:

- (i) Latin, Greek. If the Greek class has not been attended and the examination for Ordinary Degree on Greek passed, the student who chooses Latin as his subject in this set is required to pass a special examination in Greek, and this special examination he must pass before he offers himself for the Honours examination. [See the paragraph to which the second footnote on p. 200 refers.]
- (ii) Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany, Geology.
- (iii) Any subject for the Degree except the two already chosen.

In Group (c) *Mathematics and Natural Philosophy*: one subject from each of the following sets of Ordinary classes:

- (i) Latin, Greek.
- (ii) Logic, Moral Philosophy, Political Economy, Education.
- (iii) Any subject for the Degree except the two already chosen.

In Group (d) *Semitic Languages*: one subject from each of the following sets of Ordinary classes;

- (i) Latin, Greek.
- (ii) Logic, Moral Philosophy, Political Economy, Education.
- (iii) Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany, Geology.

In Groups (f) *English*,
 (g) *Modern*
 Languages,
 (h) *History*,
 { one subject from each of the following
 sets of Ordinary classes:
 (i) Latin, Greek.
 (ii) Logic, Moral Philosophy.
 (iii) Mathematics, Natural Philosophy.

In Group (i) *Economic Science*: if History be the second subject chosen, one subject from each of the following sets of Ordinary classes:

- (i) Latin, Greek.
- (ii) Logic, Moral Philosophy.
- (iii) Mathematics, Natural Philosophy.

If Moral Philosophy be the second subject chosen, one subject from each of the following sets of Ordinary classes:

- (i) Latin, Greek.
- (ii) Mathematics, Natural Philosophy.
- (iii) A half course in the History of Civil Law combined with a half course in Philosophy of Law, or any subject for the Degree except those already chosen. [See III. (2) below.]

III. *Attendance.*

- (1) The Candidate must attend two classes, one of which shall be an Honours class, in each of his two *Honours* subjects, these two subjects being taught by separate Professors or Lecturers; and he cannot take an Honours class in a subject before, or in the same session as, an Ordinary class in that subject. All Honours classes meet on not less than fifty days in a session.
- (2) In order to qualify for his Ordinary degree examinations in the other three subjects, the candidate must attend classes in them. Most of the classes for the Ordinary degree meet on not less than one hundred days in a session. In place of such a full course, two half courses, each involving not less than fifty meetings, may be taken. The subjects in which half courses may be taken are: Latin, Greek, Hebrew, Arabic, Mathematics, Astronomy. A half course in any of these subjects can be combined only with a second half course in the same subject. There is also a half course in Philosophy of Law and in the History of Civil Law, and these two can be combined to form one subject, but only by those who select Moral Philosophy in the Group of Economic Science.

IV. *Additional Regulations* with regard to Degree of M.A. with Honours.

- (1) A candidate who has obtained Honours in any one Group may, whether he has graduated or not, present himself again for examination in a second Honours Group. He is required to attend two additional classes, which shall be Honours Classes, in this second Group.
- (2) A Candidate who has passed the seven examinations necessary for the ordinary Degree of Master of Arts, whether he has graduated or not, may, without attending further classes, present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination: but he must satisfy the requirements as to subjects set out above under II. (4).
- (3) No one shall be allowed to present himself a second time as a candidate for the Degree of Master of Arts with Honours, who, upon examination, has failed to obtain Honours.

DATES OF EXAMINATIONS FOR MASTER OF ARTS.

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Dates of Written Examinations and Hours at which the different Papers will be set.

Fees.		Given in and Fees paid to Assistant-Clerk ¹ (Matriculation Office). Date. ²	Subjects of Examination.	Dates of Written Examinations and Hours at which the different Papers will be set.	
		8th September or 9th March		September—October, 1904.	March—April, 1905.
14th September or 7th March			{ Astronomy, - - - - - Geology, - - - - - Zoology, - - - - - Chemistry, - - - - - Botany, - - - - - (Mathematics (Ord. and Hon.), Education, - - - - - History (Hon.), - - - - - Constitutional Law & History, Roman Law, - - - - - Mathematics (Hon.), - - - - - History (Hon.), - - - - - Moral Philosophy (Ord. & Hon.), Moral Philosophy (Hon.), - - - - - History (Hon.), - - - - - Logic (Ord. and Hon.), - - - - - Logic (Hon.), - - - - - Political Economy, - - - - - History (Ord. and Hon.), - - - - - English Literature (Hon.), - - - - - Mental Philosophy (Hon.), - - - - - Nat. Philosophy (Ord. & Hon.), English Literature (Hon.), - - - - - French (Hon.), - - - - - German (Hon.), - - - - - Eng. Literature (Ord. & Hon.), English Literature (Hon.), - - - - - Latin and Greek (Hon.), - - - - - Natural Philosophy (Hon.), - - - - - Latin (Ord.), - - - - - Latin (Hon.), - - - - - German (Ord. and Hon.), French (Ord. and Hon.), - - - - - Greek (Ord.), - - - - - Greek (Hon.), - - - - - Latin and Greek (Oral), Hebrew, - - - - -	Saturday, 24th Sept., 9—12 noon. Do., do., 1—3 p.m. Monday, 26th Sept., 9—12 noon. Do., do., 2—5 p.m. Tuesday, 27th Sept., 9—12 noon. Fri., 23rd Sept., 9—12 noon & 3—6 p.m. Sat., 24th Sept., 9—12 noon & 3—6 p.m. Mon., 26th Sept., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon. Do., do., 2—5 p.m. Do., do., 3—5 p.m. Tue., 27th Sept., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon. Do., do., 2—5 p.m. Wed., 28th Sept., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon. Do., do., 2—5 p.m. Do., do., 6—9 p.m. Thur., 29th Sept., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon & 2—5 p.m. Do., do., 2—6 p.m. Fri., 30th Sept., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon. Do., do., 2—5 p.m. Sat., 1st Oct., 9—12 noon. Do., do., 2—5 p.m. Do., do., 2—6 p.m. Do., do., 2—6 p.m. Mon., 3rd Oct., 9—11, 12—2, & 3—5 p.m. Do., do., 9—12 noon & 2—5 p.m. Tue., 4th Oct., 9—12 noon & 2—5 p.m. Wed., 5th Oct., 9—12 noon & 2—5 p.m. Thur., 6th Oct., 9—11, 12—2, & 3—5 p.m. Do., do., 9—12 noon & 2—5 p.m. Do., do., and following days at 11 a.m. Fri., 7th Oct., 9—12 noon & 2—5 p.m.	Saturday, 25th March, 9—12 noon. Do., do., 1—3 p.m. Monday, 27th March, 9—12 noon. Do., do., 2—5 p.m. Tuesday, 28th March, 9—12 noon. Fri., 24th Mar., 9—12 noon & 3—6 p.m. Sat., 25th Mar., 9—12 noon & 3—6 p.m. Mon., 27th Mar., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon. Do., do., 2—5 p.m. Do., do., 3—5 p.m. Tue., 28th Mar., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon. Do., do., 2—5 p.m. Wed., 29th Mar., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon. Do., do., 2—5 p.m. Do., do., 6—9 p.m. Thur., 30th Mar., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon & 2—5 p.m. Do., do., 2—6 p.m. Friday, 31st Mar., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon & 2—5 p.m. Do., do., 9—12 noon. Do., do., 2—5 p.m. Sat., 1st April, 9—12 noon. Do., do., 2—5 p.m. Do., do., 2—6 p.m. Do., do., 2—6 p.m. Mon., 3rd April, 9—11, 12—2, & 3—5 p.m. Do., do., 9—12 noon & 2—5 p.m. Tue., 4th April, 9—12 noon & 2—5 p.m. Wed., 5th April, 9—12 noon & 2—5 p.m. Thur., 6th April, 9—11, 12—2, & 3—5 p.m. Do., do., 9—12 noon & 2—5 p.m. Do., do., and following days at 11 a.m. Friday, 7th April, 9—12 noon & 2—5 p.m.

¹ For Women students, Miss Galloway, Queen Margaret College.

² When names are not given in, and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be admitted to examination. A candidate is **not** held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged.

2.—GRADUATION IN SCIENCE.

The Scottish University Commissioners (1889) have ordained that two Degrees in Science may be conferred by each of the Universities of Scotland—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). These Degrees may be given in Pure Science and in Applied Science.

Degrees in Pure Science.

The following are the provisions of Ordinances No. 12¹, No. 42, No. 44, and No. 155 as they apply to this University :—

I. Two Degrees in Science may be conferred by the University of Glasgow—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.).

II. Every candidate for the Degree of Bachelor of Science must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for Degrees in Arts); and the conditions with respect thereto imposed by that ordinance (see pp. 191—197, 202) are applicable in all respects to candidates for the Degree of Bachelor of Science, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard;² (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, exempts from the Preliminary Examination.

III. (1) Candidates for the Degree of Bachelor of Science must, in the course of not less than three academical years, attend at least seven courses of instruction, in subjects prescribed for examination under Sections VIII. and IX. below.

(2) Three of these courses must be in subjects prescribed for the First Science Examination under Section VIII.; and four must be in subjects prescribed for the Final Science Examination under Section IX.

IV. (1) Four of the seven courses must be taken in this University.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science: Provided that the fees for attendance at an approved Institution or under a recognised teacher in

¹This ordinance was printed in full in the *University Calendar* for 1892-93, pp. 485-488, and the modifications made by Ordinance No. 42 were indicated, by means of square brackets, in the *University Calendar* for 1894-95.

²A student who, having passed the Arts Preliminary Examination in accordance with the provisions of Ordinance No. 11, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, shall not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science under the provisions of Ordinance No. 12. See Ordinance No. 44, Section V. Candidates for the Degree of B.Sc. in Pure Science may offer themselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary. Notwithstanding these provisions, candidates shall not be entitled to profess at the Final Science Examination Mathematics, Natural Philosophy, or Astronomy, unless they have passed the Preliminary Examination in Mathematics on the higher standard. See Ordinance No. 155, Section I.

Glasgow shall not be less than the fees exigible for the corresponding courses in the University.

V. All candidates, not matriculated students of the University, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Glasgow, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; but two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of each Professor and Lecturer annually at the end of each winter session to submit to the Board of Studies a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Board of Studies shall transmit the schemes to the Faculty of Science, who shall submit them to the Senate with such observations as they may think fit to make thereon. The Senatus transmits such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science transmits such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

VIII. (1) There is a First Science Examination¹ in the three following subjects—viz., (1) Mathematics or Biology (*i.e.* Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects is the same as the examination in these subjects for the Ordinary Degree of Master of Arts.

(3) Candidates may present themselves in any one or more of these subjects at any examination held after they have attended a full course in the subject or subjects professed.

¹ This examination includes practical work in the subjects admitting of, or requiring it.

IX. (1) There is a Final Science Examination¹ on a higher standard in any three or more of the following subjects :—

- | | |
|---|--|
| 1. Mathematics. | 6. Physiology. |
| 2. Natural Philosophy. | 7. Geology, including Mineralogy. ² |
| 3. Astronomy. | 8. Zoology, including Comparative Anatomy. |
| 4. Chemistry. | 9. Botany, including Vegetable Physiology. |
| 5. Human Anatomy, including Anthropology. | |

(2) The standard of this examination shall be as nearly as possible equivalent to that of the examination for the Degree of Master of Arts with Honours, where the subjects are different; and where the subjects are the same the examination shall be identical.

(3) A subject already taken under the preceding section for the First Science Examination may be taken also under this section for the Final Science Examination.

(4) Candidates presenting themselves for this examination must have attended four full courses of higher instruction, including practical or laboratory work, in the subjects professed, subject always to the provisions of Sections VI. and VII. hereof.

(5) The Final Science Examination shall be taken not less than one year after the candidate has passed the First Science Examination.

The Senate, with the approval of the University Court, has framed the following regulation for the Final Science Examination, viz. : A candidate shall be allowed the option of presenting himself in any one subject for the Final Science Examination, or in two, or in three or more at one time, provided always that if the candidate select Mathematics and Natural Philosophy, these subjects shall be taken together in one examination, in accordance with Ordinance No. 11, Section XIII. (1) and Ordinance No. 12, Section IX. (2).

X. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XI. A candidate for the degree of Bachelor of Science shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It is competent to the Examiners for the degree of Bachelor of Science to report that a candidate has passed with special distinction in one or more of the subjects professed by him: and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

¹ This examination includes practical work in the subjects admitting of, or requiring it.

² The higher course in Geology, including Mineralogy, consists of fifty lectures, together with practical Laboratory work.

DEGREE IN APPLIED SCIENCE.

XIII. Degrees in Applied Science may be instituted and conferred according to regulations to be laid down in special Ordinances applicable to each University by the Commissioners under the Universities (Scotland) Act, 1889; or after the expiry of their powers by the University Court in each University.

XIV. The provisions of Sections II. to VIII. of this Ordinance inclusive, in so far as they relate to the Preliminary and First Science Examinations, shall be applicable in all respects to degrees in Applied Science instituted as aforesaid, except where special provision is made to the contrary in the special Ordinances aforesaid.

DOCTORATE OF SCIENCE.

XV. Graduates of any University who have held the degree of Bachelor of Science for a term of five years, may offer themselves for the degree of Doctor of Science in the same University.

XVI. A candidate for the Degree of Doctor of Science shall present a thesis or a published memoir of work¹ to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination as may from time to time be determined. [This examination is to be conducted by Examiners appointed under Ordinance No. 62, Section X. See page 242.]

The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done and the thesis composed by himself.

GENERAL.

XVII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in any of the Scottish Universities under regulations in force at the time in such University, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,² or with the provisions of this ordinance, may become a candidate for the Degree of Bachelor of Science.

XVIII. The Degrees of Bachelor and Doctor of Science shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIX. This ordinance came into force on 1st October, 1892.

For dates of Examinations, see Table on p. 236.

OUTLINE OF EXAMINATIONS FOR B.Sc. IN PURE SCIENCE.

First Examination.

MATHEMATICS—see p. 212. ZOOLOGY—see p. 213. BOTANY—see p. 213.

NATURAL PHILOSOPHY—see p. 212. CHEMISTRY—see p. 213.

Final Examination.

MATHEMATICS—see p. 212 (Honours in Arts).

NATURAL PHILOSOPHY—see p. 212 (Honours in Arts).

¹ The Thesis must be lodged on or before 14th January.

² Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85; those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

Chemistry.

The examination is partly written and oral, and partly practical. Principles and Theories of Chemistry; general inorganic and organic Chemistry; Elements of metallurgical and physical Chemistry. The practical examination embraces inorganic quantitative analysis, physical determinations such as molecular weight, organic analysis and preparations.

Books recommended:—Bloxam, *Chemistry*; or Thorpe, *Inorganic Chemistry*; Perkin & Kipping, *Organic Chemistry*; and Gatterman, *Practical Methods of Organic Chemistry*; Roberts-Austen, *Introduction to Metallurgy*; Walker, *Introduction to Physical Chemistry*.

Botany.

Candidates for the Final B.Sc. Examination in Botany will be expected to show an adequate knowledge of the External Morphology, Anatomy, and Physiology of Plants, and of the leading features in their Geological History. Also a general knowledge of the leading types, and classification of the main groups of Algæ, Fungi, Bryophyta, and Pteridophyta.

A knowledge of the leading characters of the following families of Phanerogams will also be expected:

Cycadaceæ, Ginkgoaceæ, Taxaceæ, Pinaceæ, Gnetaceæ. Juncaceæ, Liliaceæ, Amaryllidaceæ, Iridaceæ, Palmæ, Araceæ, Cyperaceæ, Gramineæ, Alismaceæ, Potamogetonaceæ, Musaceæ, Zingiberaceæ, Orchidaceæ. Salicaceæ, Cupuliferæ, Urticaceæ, Polygonaceæ, Chenopodiaceæ, Caryophyllaceæ, Ranunculaceæ, Nymphæaceæ, Cruciferae, Papaveraceæ, Violaceæ, Hypericaceæ, Droseraceæ, Cactaceæ, Malvaceæ, Geraniaceæ, Rutaceæ, Sapindaceæ, Euphorbiaceæ, Umbelliferae, Saxifragaceæ, Rosaceæ, Leguminosæ, Myrtaceæ, Lorantheæ. Ericaceæ, Primulaceæ, Apocynaceæ, Asclepiadaceæ, Boraginaceæ, Solanaceæ, Scrophulariaceæ, Labiatae, Rubiaceæ, Valerianaceæ, Campanulaceæ, Compositæ.

The following books are suggested:—As a general text-book, Strasburger's *Textbook of Botany*, 2nd Engl. Ed. For more detailed information, especially of the Algæ and Fungi, Warming's *Systematic Botany*. For use in the garden, especially for flowering plants, Willis' *Flowering Plants and Ferns*, 2nd Edn. For field work, Hooker's *Students' Flora of the British Islands*.

The reading of Candidates should also extend to more special treatises, such as Scott's *Studies in Fossil Botany*; Schimper's *Plant Geography*, etc., as well as to original papers, such as are referred to in the bibliography of Strasburger's *Textbook*.

There will be two three-hour papers, and two practical examinations [three hours each].

Candidates will also be examined orally.

Zoology, including Comparative Anatomy.

Candidates for the final B.Sc. examination in Zoology are expected to show a general knowledge of the classification of the Animal Kingdom, and of the structural and developmental characters of its various subdivisions.

Questions upon a more advanced standard will be set in regard to the Zoology of the Vertebrata and such other groups as are treated from time to time in the advanced lectures.

Candidates will also be expected to show a knowledge of the more general problems of Zoology, *e.g.* Evolutionary Theory, the principles of Zoogeography, the main data regarding the processes of maturation and conjugation of the germ cells, etc. Special lectures will be arranged so far as possible to deal with such general portions of the subject.

The following text-books are recommended in addition to those used by the elementary class:—

Text-book of Zoology by A. Sedgwick. *Comparative Anatomy of Vertebrates* by Wiedersheim.

For reference in regard to special groups, Korschelt & Heider's *Invertebrate Embryology*, Hertwig's *Embryology of Vertebrates*, *The Cambridge Natural History*, Lankester's *Zoology*.

Students are further recommended to read Wallace's *Darwinism*, and Darwin's *Origin of Species*.

Degrees in Science in Engineering.

The following are the provisions of Ordinance No. 23, Glasgow No. 2:—

I. Two Degrees in Science in Engineering may be conferred by the University of Glasgow, viz., Bachelor of Science in Engineering¹ and Doctor of Science in Engineering.

II. Every candidate for the degree of Bachelor of Science in Engineering must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for degrees in Arts); and the conditions with respect thereto imposed by the said ordinance (see pp. 191—197, 202) are applicable in all respects to this ordinance except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard; (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, exempts from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. Candidates must in the course of not less than three academical years attend at least the nine courses of instruction prescribed under Section IX.

IV. (1) Five of the nine courses must be taken in this University. One of these courses must be a course in Engineering.

(2) Four may be taken in other Universities or institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering: Provided that the fees for attendance at an approved institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

V. It is competent to the University Court to admit to the examinations for the degree of Bachelor of Science in Engineering, and to graduation, any candidate who presents the diploma of the Glasgow and

¹ By order of the Council of the Institution of Civil Engineers the possession of the Degree of B.Sc. in Engineering exempts candidates applying for election into the Institution as Associate Members from passing the examination prescribed by the Council.

West of Scotland Technical College, and who has passed the Preliminary Examination hereinbefore appointed: Provided that before such candidate shall be admitted to the Final Science Examination prescribed under Section XI. hereof:—

- (1) He shall, after having received the said diploma, have attended in this University at least three full courses, during at least one academical year; and of these courses one at least shall be in Engineering.
- (2) He shall, after having received the said diploma, have attended in this University such courses as will, along with the classes taken at the said College for the said diploma, be equivalent to the whole courses for the curriculum hereinafter instituted.

VI. The University Court may make regulations to enable candidates not matriculated students of the University availing themselves of the permission to attend Lectures at approved institutions or by recognised teachers in Glasgow, to obtain on payment of a fee not exceeding in amount the Matriculation Fee paid by the students of the University, a right to the use of the Library of the University.

VII. (1) The Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; and two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session, to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VIII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow.

IX. The subjects of study¹ shall be as follows:—

1. Mathematics, including Analytical Geometry, and Differential and Integral Calculus.
2. Natural Philosophy, including Applied Higher Mathematics.
3. Chemistry.

¹ The words in *italics* in this section are modifications which the University Court, on a representation by the Senate, made by virtue of the power conferred upon the Court by Section XIV. of this Ordinance.

4. A course in the Physical Laboratory,¹ or in the Chemical Laboratory, or of Practical Chemistry.
- and either:—
- 5, 6. Two courses in Engineering,¹ including Laboratory Practice.
- 7, 8. Two courses of practical work in Drawing.
9. A course in one of the following:—
- (a) Astronomy and Geodesy.
 - (b) Geology and Mineralogy.
 - (c) Naval Architecture.
 - (d) Engineering Laboratory, Mechanical or Electrical (Special Course). [*This laboratory course cannot be taken concurrently with either of the laboratory courses specified under 5, 6.*]
 - (e) Electricity—Pure and Applied.
 - (f) *Any half-course in Engineering not already taken under 5, 6.*

or:—

- 5, 6. Two courses in Naval Architecture with Marine Engineering.
- 7, 8. Two courses of practical work in Ship and Engineering Drawing.
9. A course in Engineering, including Laboratory Practice.

Provided that during the three years immediately subsequent to the date on which this ordinance shall come into force, the courses in Engineering herein prescribed shall not necessarily include Laboratory Practice.

IXA.² *The following is the curriculum for the Degree of B.Sc. in Mining Engineering:—*

FIRST YEAR: *Mathematics (Ordinary); Natural Philosophy (Ordinary); Chemistry: Chemical Laboratory; Mining, Class I. (50 meetings).*

SECOND YEAR: *Engineering, Class I.; Engineering, Class II. or III.; Mining, Class II. (50 meetings); Drawing; Geology and Mineralogy.*

THIRD YEAR: *Electrical Engineering, Class I.; Metallurgy; Metallurgical Laboratory; Mining, Class III. (25 meetings); Engineering Laboratory.*

X. (1) There shall be a First Science Examination³ in subjects 1, 2, 3, and 4 of the section immediately preceding.

(2) The examination in (1) Mathematics and (2) Natural Philosophy shall include the higher branches of Mathematics specified under Mathematics and the higher Mathematics included under Natural Philosophy in the section immediately preceding;³ but it shall be optional to candidates to pass the same examination in either or both of these subjects as that required for the Ordinary Degree of Master of Arts: Provided that in that case they shall be required before graduation to pass a subsequent examination in the remainder of the subject or subjects.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

¹The Physical Laboratory must have been taken previously by those who take Electrical Engineering under 5, 6.

²This curriculum, having been arranged by the Senate, was sanctioned by the University Court on 18th June, 1903, in virtue of the power belonging to the Court according to Section XIV. of this Ordinance.

³The Senate has authorised the Examiners in Mathematics and Natural Philosophy to return as having passed in the elementary part of either or both of these subjects any candidate who has attempted the examination in the higher branches of either or both and has failed to pass, provided that in the opinion of the Examiners the candidate has attained a standard equivalent to that required for the ordinary Degree of M.A.

XI. (1) There shall be a Final Science Examination¹ in subjects 5, 6, 7, 8, and 9 of Section IX. hereof; and, if required, in the higher branches of Mathematics as provided in Section X., Sub-section 2 hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the First Science Examination and have attended the required courses in the subject or subjects professed: Provided that for this purpose subjects 5, 6, 7, and 8, specified in Section IX. hereof shall be deemed one subject.

XII. A candidate for the degree of Bachelor of Science in Engineering shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XIII. It is competent to the Examiners for the degree of Bachelor of Science in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIV. It is competent to the University Court of the University of Glasgow to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable by the development of Engineering science, or in consequence of further provisions having been made within or without the University for the study of any special branch of the said Science: Provided that in no case shall the number of full courses of study required be less than the number required for the Degree of Bachelor of Science in Pure Science, as specified in Ordinance No. 12.

DOCTORATE OF SCIENCE IN ENGINEERING.

XV. Graduates of the University of Glasgow who have held the degree of Bachelor of Science in Engineering for a term of five years, may offer themselves for the degree of Doctor of Science in Engineering in the said University.

XVI. A candidate for the Degree of Doctor of Science in Engineering shall present a thesis or a published memoir or work² to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall be bound to pass such an examination as may from time to time be determined.

The thesis shall be a record of original research undertaken by the candidate, or of important engineering work designed by himself, and actually carried out, and shall be accompanied by a declaration, signed by him, that these conditions have been satisfied.

GENERAL.

XVII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this ordinance, and who have passed the

¹This examination includes practical work in the subjects admitting of, or requiring it: Provided that, in the case of Engineering Students, a practical examination shall be passed in Chemistry or Physics according as the Chemical or the Physical Laboratory Course has been chosen as part of the qualifying curriculum.

²The Thesis must be lodged on or before 14th January.

necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Engineering and Doctor of Science in Engineering, as the case may be, on payment of the fees required.

XVIII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in Engineering in the University of Glasgow, under regulations in force at the time therein, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,¹ or with the provisions of this Ordinance, may become a candidate for the degree of Bachelor of Science in Engineering.

XIX. The degrees of Bachelor and Doctor of Science in Engineering shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XX. This Ordinance came into force from and after the date on which it was approved by Her Majesty in Council, viz., 26th June, 1893.

For Dates of Examinations, see Table on page 236.

DEGREES IN SCIENCE IN AGRICULTURE.

The regulations for the Degree of Bachelor of Science in Agriculture are contained in Ordinance No. 134 of the Universities Commission (1889), and are as follows:—

I. A degree of Bachelor of Science in Agriculture may be conferred by the University of Glasgow.

II. Every candidate for the degree of Bachelor of Science in Agriculture must pass the Preliminary Examination prescribed by Ordinance No. 11 [General, No. 6—Regulations for Degrees in Arts]; and the conditions with respect thereto imposed by the said Ordinance (see pp. 191—197, 202) shall be applicable in all respects to this Ordinance, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics shall be passed on the higher standard;² (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, shall exempt from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. (1) Candidates must in the course of not less than three Academic years, within the meaning of the Ordinance hereinbefore first mentioned, attend at least twelve courses of instruction, in the subjects specified in Section VIII. of this Ordinance.

¹ Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85, those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

² Candidates for the Degree of B.Sc. in Agriculture may offer themselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary.

(2) It shall be the duty of the Senatus to determine from time to time which of the said courses shall be full courses and which shall be half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

Under this subsection the Senate, with the approval of the University Court, has determined that of the subjects specified in Section VIII. of this Ordinance, Nos. 1, 2, 3, 4, 5, 6 and 10 shall be taught in full courses, and Nos. 7, 8, 9, 11 (a), 11 (b), 11 (c) and 12 in half courses, and that the number of meetings shall be those inserted in square brackets in Section VIII. opposite the several subjects.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Glasgow. The course in Agriculture and Rural Economy must also be taken in the University of Glasgow, if instruction in the said subjects be provided in the University, or in the West of Scotland Agricultural College¹: Provided always that that course in the said College shall be accepted as equivalent to a course in the University, subject to the following conditions:—

- (a) The Senatus Academicus shall be represented on the governing body of the Agricultural College.¹
- (b) All future appointments to the Chair of Agriculture in the Agricultural College¹ shall be vested in a Joint Committee, consisting of three members of the University Court and of three members of the governing body of the Agricultural College.¹

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Agriculture: Provided that the fees for attendance at an approved Institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

(3) Residence and practical work at a farm shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

Under this subsection the following regulations have been made by the Senate, with the approval of the University Court.

1. Residence and practical work at a farm for twelve months shall be required, and the candidate must not be under sixteen years of age when he commences the residence.

2. The residence must be for twelve consecutive months, except in special cases in which the Senate may grant recognition of residence during two shorter periods amounting together to at least twelve months.

3. The candidate must produce evidence, satisfactory to the Senate, that he has fulfilled these regulations.

¹ An ordinance was framed by the University Court on 6th August, 1900, and approved by His Majesty in Council on 24th July, 1901, which substituted the West of Scotland Agricultural College for the Glasgow and West of Scotland Technical College.

V. All students availing themselves of the permission to attend the lectures of the teachers in the various departments of Agriculture in the West of Scotland Agricultural College, or of teachers in other approved institutions in Glasgow, or of other recognised teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by the students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Faculty of Science for its consideration a syllabus of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the immediately preceding section shall not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow, where such exist.

VIII. The subjects of study shall be as follows:—

- | | |
|-----|--|
| | { Mathematics [100 meetings]. |
| 1. | { or Biology, i.e., { Zoology [100 meetings, viz., 50 lectures and 50
and practical].
Botany, [100 meetings, viz., 50 lectures and 50
practical]. |
| 2. | Natural Philosophy [100 meetings]. |
| 3. | Chemistry [100 meetings and three months in Chemical Laboratory]. |
| 4. | Agriculture and Rural Economy [100 meetings]. |
| 5. | Agricultural Chemistry [100 meetings, viz., 50 lectures and 50
practical]. |
| 6. | Geology [75 meetings, viz., 50 lectures and 25 practical demonstrations]. |
| 7. | Veterinary Hygiene [50 meetings]. |
| 8. | Agricultural Botany [50 meetings]. |
| 9. | Agricultural Entomology [25 meetings]. |
| 10. | Economic Science as applied to Agriculture [100 meetings]. ¹ |

¹ The Glasgow and West of Scotland Technical College contemplates the institution of a special class for the teaching of this subject in 50 meetings. Until this special class shall be instituted candidates are required to attend the ordinary class of Political Economy [100 meetings]. After both classes are available students will have the option of taking either. In the examination prescribed under Section X. every candidate shall be required to work a paper of questions on Economic Science as applied to Agriculture.

11. One of the following:—

- (a) Forestry [50 meetings].
- (b) Experimental Physics [50 meetings].
- (c) Engineering [50 meetings].

12. Engineering Field Work [50 meetings].

IX. (1) There shall be a First Science Examination in the three following subjects—viz., (1) Mathematics or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects shall be the same as the examination in these subjects for the degree of Bachelor of Science, under the provisions of Ordinance No. 12 [General, No. 7—Regulations for Degrees in Science].

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

X. (1) There shall be a Final Science Examination¹ in the remaining subjects (4 to 12 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

XI. A candidate for the degree of Bachelor of Science in Agriculture shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. The Examiners for the degree of Bachelor of Science in Agriculture shall be the Professors of the subjects in the Curriculum in the University of Glasgow, the Professor of Agriculture in the West of Scotland Agricultural College, and such additional Examiners as the University Court shall see fit to appoint.

GENERAL.

XIII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Agriculture, on payment of the fees required.

XIV. The degree of Bachelor of Science in Agriculture shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

XV. This ordinance came into force from and after the date on which it was approved by Her Majesty in Council, viz., 13th August, 1895.

DEGREES IN SCIENCE IN PUBLIC HEALTH.

The following are the provisions of Ordinance No. 2 made by the University Court:—

I. Two degrees in Science in Public Health shall be conferred by the

¹ The examination in Agricultural Botany, Agricultural Entomology, and Experimental Physics, may be practical.

University of Glasgow, viz.: Bachelor of Science in Public Health (B.Sc. Pub. Health) and Doctor of Science in Public Health (D.Sc. Pub. Health).

B.SC. IN PUBLIC HEALTH.

II. Candidates for the degree of Bachelor of Science in Public Health must be graduates in Medicine of a University of the United Kingdom, or of some other University recognised for the purpose by the University Court of the University of Glasgow.

III. Candidates must be matriculated for the year in which they appear for examination or graduation.

IV. Candidates shall be admitted to the Degree of Bachelor of Science in Public Health, only after they have fulfilled the following conditions, viz.: they must produce evidence

(1) That, after their graduation in Medicine, they have received practical instruction, including instruction in Chemistry, Bacteriology, and the Pathology of the Diseases of Animals transmissible to man, for at least twenty hours per week during a period of not less than eight months, of which at least five consecutive months must be in the Public Health Laboratory of the University of Glasgow, and the remainder in the foresaid Laboratory, or in a Public Health Laboratory recognised for the purpose by the University Court :

(2) That they have attended either before or after graduation in Medicine, such courses on (a) Physics and (b) Geology, either in the University of Glasgow or elsewhere, as would qualify for graduation in Science or Arts in the said University ; or have attended in said University or any other Scottish University in addition to the course in Physics qualifying for graduation in Medicine, such further course in Physics as the Senatus Academicus, with the approval of the University Court, shall deem necessary, and such a course in Geology extending over not less than three months, as the Senatus with the like approval shall deem sufficient and appropriate.

(3) That after their graduation in Medicine they have attended two separate courses in Public Health, one course dealing with Medicine and consisting of seventy-five meetings of the class, the other with Engineering and consisting of twenty-five meetings of the class, each in its relation to Public Health, in such manner as the Senatus Academicus, with the approval of the University Court, shall determine.

(4) That after their graduation in Medicine they have for six months, three of which must be continuous, practically studied sanitary work under the supervision of :

- (a) In England and Wales, the Medical Officer of Health of a County or of a single Sanitary District having a population of not less than 50,000, or a Medical Officer of health devoting his whole time to Public Health work ; or
- (b) In Scotland, a Medical Officer of Health of a County or Counties, or of one or more Sanitary Districts having a population of not less than 30,000 ; or
- (c) In Ireland, a Medical Superintendent Officer of Health of a District or Districts having a population of not less than 30,000 ; or

- (d) A Medical Officer of Health who is also a Teacher in the Department of Public Health of a recognised Medical School.

Half of the above period must be devoted solely to the study of sanitary work as aforesaid ; the other half partly to the same study.

(5) That after their graduation in Medicine they have attended during three months the practice of an Hospital for Infectious Diseases in an Hospital at which opportunities are afforded for the study of Methods of Administration, recognised for the purpose by the University Court ; and

(6) That they have had three months' instruction in Mensuration and Drawing under a teacher recognised for the purpose by the University Court.

V. Each candidate shall be examined both in writing and orally, and also practically where the nature of the subject admits in the following divisions, viz. : *First*, in (a) Public Health Laboratory work, (b) Physics, and (c) Geology, if an examination in Physics or Geology, as the case may be, qualifying for graduation either in Science or Arts has not previously been passed by the Candidate ; *Second*, in (a) Sanitation, including reports on dwellings, workshops, hospitals, and sanitary schemes generally, (b) Sanitary Law, (c) Vital Statistics, and (d) Medicine in its bearings on Public Health, and the examinations in these subjects shall be taken at one time.

VI. Candidates who have passed their examinations in the subjects comprised in the first division shall not be admitted to examination in the second division sooner than eighteen months after having taken their degree in Medicine, nor sooner than six months after having passed the first examination.

VII. The Board of Studies for the Faculty of Science along with the Lecturer or Professor of Public Health shall from time to time, with the approval of the Senatus and the University Court, determine and announce the character of the instruction to be given in the Laboratory, and shall fix the standard of the examinations.

VIII. It shall also be competent for the University Court, after consultation with the Senatus, to modify from time to time the provisions as to the work and instruction hereinbefore specified as necessary for graduating in Science in Public Health, in case such modification shall be rendered desirable by the development of the Science of Public Health, or by increase of the facilities provided in the said University or elsewhere for the study of any branch of the said Science.

IX. The Examiners for graduation in Science for the Degree of B.Sc. in Public Health in the University of Glasgow shall be the Professors in that University whose subjects qualify for graduation in Science, together with such Lecturers in the University, and such additional Examiners to be appointed by the University Court as the University Court shall deem necessary, provided that the Court shall make such provision as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. Provided also that the Examination under Section V. in Sanitation, including reports of dwellings, workshops, and hospitals, and sanitary schemes generally, shall be conducted by two Examiners, one of whom shall be a Medical Officer of Health, and the other shall be the Professor of, or Lecturer on, Public Health in the University.

D.SC. IN PUBLIC HEALTH.

X. Graduates who have held the degree of Bachelor of Science in Public Health from the University of Glasgow for a term of five years, may offer themselves for the Degree of Doctor of Science in Public Health in the said University.

XI. Each candidate for the degree of Doctor of Science in Public Health shall present a thesis or a published memoir or work to be approved by the Senatus, on the recommendation of the Faculty of Science, and shall also be required to pass an examination in Public Health, and in such of its special departments as the Senatus, with the approval of the University Court, by regulations framed from time to time, shall determine.

The thesis, or published memoir or work, shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done, and the thesis or memoir composed by himself.

XII. The Senatus Academicus shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the provisions of this Ordinance for the Degree of Doctor of Science, and the University Court shall, after consultation with the Senatus Academicus, appoint such additional Examiners as they deem necessary to act along with them. Such additional Examiners shall be persons of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval, and may be Professors or Lecturers in any Scottish University other than the University of Glasgow.

XIII. The thesis, memoir, or work submitted by a candidate for the Degree of Doctor of Science shall in each case be examined by the additional Examiner to be appointed by the University Court, as well as by the Examiners to be appointed by the Senatus under the provisions of Section XII. of this Ordinance.

XIV. The result of the examination of the thesis, memoir, or work submitted by a candidate, as well as the result of the Examination prescribed under Section XI. of this Ordinance, shall be reported to the Faculty of Science.

GENERAL.

XV. Candidates who produce certificates bearing that, either before or after, or partly before and partly after, the date at which this Ordinance shall come into force, they have satisfied the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Public Health and Doctor of Science in Public Health, as the case may be, on payment of the fees required.

XVI. The degrees of Bachelor and Doctor of Science in Public Health shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XVII. This Ordinance shall come into force from and after the date on which it is approved by His Majesty in Council.

Approved, 20th May, 1903.

TABLE OF EXAMINATIONS FOR DEGREE OF B.Sc., TO BE HELD DURING SESSION 1904-5.

Names to be given in and Fees paid to Assistant-Clerk 1 (Matriculation Office). Date. 2	FEE.	Subjects of Examination.	Dates of Written Examinations and Hours at which the different Papers will be set. The Oral Examinations in Science follow the Written at dates to be arranged.	
			September - October, 1904.	March - April, 1905.
8th September, 1904, or 9th March, 1905.	£1 1s. FOR EACH SUBJECT UNTIL 20 0s. SHALL HAVE BEEN PAID.	Math. (Ord. & Hon.),	Fri., 23rd Sept., 9-12 noon & 3-6 p.m.	Fri., 24th Mar., 9-12 noon & 3-6 p.m.
		Astronomy, -	Saturday, 24th Sept., 9-12 noon.	Saturday, 25th Mar., 9-12 noon.
		Geology, -	Do., do., -	Do., do., -
		Zoology, -	Monday, 26th Sept., 9-12 noon.	Monday, 27th Mar., 9-12 noon.
		Chemistry, -	Do., do., 2-5 p.m.	Do., do., 2-5 p.m.
		Mathematics (Hon.),	Do., do., 3-5 p.m.	Do., do., 3-5 p.m.
		Engineering Laboratory,	Do., do., 9-12 noon and 2-5 p.m.	Do., do., 9-12 noon and 2-5 p.m.
		Engineering Drawing,	Tues., 27th Sept., 9-12 noon & 2-5 p.m.	Tues., 28th Mar., 9-12 noon and 2-5 p.m.
		Botany, -	Do., do., 9-12 noon.	Do., do., 9-12 noon.
		Naval Architecture,	Do., do., 9-11 a.m.	Do., do., 9-11 a.m.
		Ship Drawing, etc.,	Do., do., 2-5 p.m.	Do., do., 2-5 p.m.
		Anatomy, -	Do., do., 9-12 noon.	Do., do., 9-12 noon.
		Physiology, -	Do., do., 2-5 p.m.	Do., do., 2-5 p.m.
		Engineering, -	Wed., 28th Sept., 9-12 noon & 2-5 p.m.	Wed., 29th Mar., 9-12 noon & 2-5 p.m.
		Public Health,	Do., do., 9-11 a.m.	Do., do., 9-11 a.m.
		Economic Science, -	Do., do., 6-9 p.m.	Do., do., 6-9 p.m.
		Engineering, -	Thurs., 29th Sept., 9-12 noon & 2-5 p.m.	Thurs., 30th Mar., 9-12 noon & 2-5 p.m.
		Nat. Phil. (Ord. & Hon.),	Fri., 30th Sept., 9-12 noon & 2-5 p.m.	Fri., 31st Mar., 9-12 noon & 2-5 p.m.
		Agriculture, -	Do., do., 9-12 noon.	Do., do., 9-12 noon.
		Agric. Entomology, -	Do., do., 2-5 p.m.	Do., do., 2-5 p.m.
		Veterinary Hygiene,	Saturday, 1st Oct., 9-12 noon.	Saturday, 1st April, 9-12 noon.
		Nat. Philosophy (Hon.),	Do., do., 2-6 p.m.	Do., do., 2-6 p.m.

¹ For Women students, Miss Galloway, Queen Margaret College.

² When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged.

For Dates in regard to Science Preliminary Examination see page 195.

CERTIFICATES OF PROFICIENCY IN ENGINEERING SCIENCE.

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

1. Mathematics, including Analytical Geometry and Differential and Integral Calculus.
2. Natural Philosophy—the work of the Ordinary Class.
3. Chemistry.

And either :—

- 4, 5. Two courses in Engineering, including Laboratory Practice.
- 6, 7. Two courses of practical work in Drawing.
8. A course in one of the following :—
 - (a) Astronomy and Geodesy.
 - (b) Geology and Mineralogy.
 - (c) Naval Architecture.
 - (d) Engineering Laboratory, Mechanical or Electrical (special course). [This laboratory course cannot be taken concurrently with either of the laboratory courses specified under 4, 5.]
 - (e) Electricity—Pure and Applied.
 - (f) Any half course in Engineering not already taken under 4, 5.

Or :—

- 4, 5. Two courses in Naval Architecture with Marine Engineering.
- 6, 7. Two courses of practical work in Ship and Engineering Drawing.
8. A course in Engineering, including Laboratory Practice.

Certificates of Proficiency in Mining Engineering will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

FIRST YEAR: Mathematics (Ordinary); Natural Philosophy (Ordinary); Chemistry; Chemical Laboratory; Mining, Class I. (50 meetings).

SECOND YEAR: Engineering, Class I.; Engineering, Class II. or III.; Mining, Class II. (50 meetings); Drawing; Geology and Mineralogy.

THIRD YEAR: Electrical Engineering, Class I.; Metallurgy; Metallurgical Laboratory; Mining, Class III. (25 meetings); Engineering Laboratory.

No candidate is admitted to the special examination for either certificate, in any department, till he has given regular attendance upon, and duly performed the work of the prescribed course of study in that department.

DIPLOMA IN EDUCATION.

The following regulations drawn up by the Senate were approved by the University Court on 26th April, 1900 :

1. Candidates for the Diploma in Education must be graduates in Arts or Science of a University in the United Kingdom, or of some other University recognised for this purpose by the University Court.

2. The diploma is of two grades: (a) General Diploma, and (b) Diploma with Distinction.

3. The general diploma is open to any graduate in Arts or Science who fulfils the following requirements:

- (a) In addition to the curriculum for his Degree he must give attendance on a full course and pass the Degree examination on the same, subject to the condition that the regulations applicable to this additional course as a Degree course shall be fulfilled. This additional course may be taken at any time either before or after graduation.
- (b) The Education course must in every case either constitute part of his Degree curriculum, or be the additional course prescribed in the preceding subsection.
- (c) He must produce evidence either (1) that he has attended a course of Practical Instruction as a King's Student under the Local Committee for the Training of Teachers or as a King's Scholar in a Training College for Teachers, or (2) that he has gone through a course of Practical Training under the Local Committee or in a Training College for Teachers—the course to extend over five months (not less than eight hours weekly), and to include instruction in School management, Practice in teaching, and a series of Model and Criticism Lessons.¹
- (d) He must pass a Written examination, conducted by the University, in School Management and Organisation and Methodology, and give proof of his practical skill by conducting a class to the satisfaction of an Examiner or Examiners appointed by the University.

N.B.—*The general Diploma is recognized by the Scotch Education Department as qualifying (in the case of graduates of the University of Glasgow) for employment in Public Schools. Graduates of this University who obtain the Diploma and desire recognition as Certificated Teachers must satisfy the Department of their physical capacity, and must produce satisfactory evidence as to age in the manner prescribed by the rules made under section 6 of the Elementary School Teachers (Superannuation) Act, 1898. Early application should be made to the Department for such recognition if it is desired.*

4. The Diploma with Distinction is open to any holder of an ordinary degree in Arts, any graduate in Arts with Honours, or any graduate in Science, who fulfils the requirements of the preceding regulation, and in addition passes an examination on the method of teaching one or more of the following groups of subjects as taught in Secondary Schools, viz. (a) Classics; (b) Mathematics; (c) Science; (d) English, including History; (e) French and German: Provided always that the holder of an ordinary Degree in Arts before being admitted to the examination on the method of teaching shall be required to pass an examination equivalent to an Honours or to a Final Science examination in the group or groups of subjects selected by him.

5. The Fee for the Diploma is Two Guineas.

Examinations for the Diploma will be held on Friday, 11th November, 1904, and on Friday, 28th April, 1905. Name of candidates to be given in to the Assistant-Clerk, Matriculation Office, on 31st October, 1904, or on 14th April, 1905.

¹ Acting Teachers who produce their Parchment Certificates, or who produce evidence of having taught with success in Secondary Schools for two years, shall be held to have complied with this regulation, and may, on fulfilling the other requirements, receive the Diploma.

3.—HIGHER DEGREES IN ARTS AND SCIENCE.

In Ordinance No. 62, issued on 15th February, 1895, and approved by Her Majesty in Council on 29th June, 1895, the Universities Commission made the following regulations for Higher Degrees in Arts and Science :—

DEGREE OF D.Sc.

I. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mathematics and Natural Philosophy under the conditions prescribed by Ordinance No. 11 (Regulations for degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Science (D.Sc.) in the same University after the expiry of five years from the date of their graduation in Arts, under the same conditions as if they held the degree of Bachelor of Science.

II. Research Students within the meaning of Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows) may offer themselves for the degree of Doctor of Science of the University in which they have prosecuted some special study or research under that ordinance, although they have not taken the degree of Bachelor of Science or the degree of Master of Arts with Honours as aforesaid, in that University: Provided—

- (1) That they hold the degree of Bachelor of Science or Bachelor of Medicine of a Scottish or any recognized University, or a degree of any such University, which the Senatus Academicus shall hold to be equivalent to the degree of Bachelor of Science or to the degree of Master of Arts with first or second class honours in Mathematics and Natural Philosophy: Provided that candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Science, to pass an examination equivalent to an Honours or to a Final Science Examination in a group of subjects cognate to their line of work as Research Students.
- (2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.
- (3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

III. All candidates for the degree of Doctor of Science shall present a thesis or a published memoir or work,¹ to be approved by the Senatus on the recommendation of the Faculty of Science²: Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination conducted orally or practically, or by written papers, or

¹ The Thesis must be lodged and the fees paid on or before 14th January.

² Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 15th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

by all of these methods, on the subjects of his special study or of his thesis, as may from time to time be determined. The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration signed by him that the work has been done and the thesis composed by himself.

DEGREE OF D. PHIL.

IV. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mental Philosophy, under the conditions prescribed by Ordinance No. 11 (Regulations for Degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Philosophy (D.Phil.) in the same University after the expiry of five years from the date of such graduation.

V. Research Students as aforesaid may offer themselves for the degree of Doctor of Philosophy of the University in which they have prosecuted some special study under Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows), although they have not taken the degree of Master of Arts with Honours as aforesaid in that University: Provided—

- (1) That they hold the degree of Master of Arts with first or second class honours in Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus Academicus shall hold to be equivalent to such degree with honours as aforesaid: Provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students, with a view to the degree of Doctor of Philosophy, to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.
- (2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.
- (3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

VI. All candidates for the degree of Doctor of Philosophy shall present a thesis or a published memoir or work,¹ which shall be an original contribution to learning, to be approved by the Senatus Academicus on the recommendation of a Committee appointed by the Senatus:² Provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been

¹ See first footnote on p. 239.

Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

DEGREE OF D. LITT.

VII. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in any group other than Mathematics and Natural Philosophy or Mental Philosophy, under the conditions prescribed by Ordinance No. 11 (Regulations for Degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Letters (D. Litt.) in the same University after the expiry of five years from the date of such graduation.

VIII. Research Students as aforesaid may offer themselves for the degree of Doctor of Letters of the University in which they have prosecuted some special study under Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows), although they have not taken the degree of Master of Arts with Honours as aforesaid in that University: Provided—

- (1) That they hold the degree of Master of Arts with first or second class honours in any group except Mathematics and Natural Philosophy or Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus Academicus shall hold to be equivalent to such degree with honours as aforesaid: Provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Letters, to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.
- (2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.
- (3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

IX. All candidates for the degree of Doctor of Letters shall present a thesis or a published memoir or work,¹ which shall be an original contribution to learning, to be approved by the Senatus Academicus on the recommendation of a Committee appointed by the Senatus²: Provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by him—

¹ See first footnote on p. 239.

² Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*)

self. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

GENERAL.

X. The Senatus Academicus in each University shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the provisions either of Ordinance No. 12 (Regulations for Degrees in Science) or of this ordinance, for the degree of Doctor of Science, Doctor of Philosophy, or Doctor of Letters; and the University Court shall, after consultation with the Senatus Academicus, appoint an additional Examiner to act along with them.¹ Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of Senatus.

XI. The Degrees of Doctor of Science in Mental Science or Doctor of Science in Philology shall no longer be conferred by any Scottish University.

XII. Candidates who have already completed the necessary attendance on classes required for the degree of Doctor of Science in Mental Science or Doctor of Science in Philology, under regulations hitherto in force in any Scottish University, may proceed to the degree of Doctor of Philosophy, or of Doctor of Letters, as the case may be, under this ordinance: Provided such candidates comply with the provisions of Section VI. or Section IX. hereof, as the case may be, and that a period of not less than five years shall have elapsed from the date of their graduation as Masters of Arts.

XIII. The degrees of Doctor of Science, Doctor of Philosophy, and Doctor of Letters shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIV. The fee to be paid for the degree of Doctor of Philosophy shall be ten guineas.

XV. The fee to be paid for the degree of Doctor of Letters shall be ten guineas.

4.—GRADUATION IN MEDICINE AND SURGERY.

The Degrees in Medicine and Surgery conferred by this University are all recognised by the Medical Acts as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

Every student who began his medical studies previous to 1st January, 1892, is entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before² or after that date.

¹ Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, empowers the University Court to appoint, as additional examiners under this section, persons who are Professors or Lecturers in any Scottish University other than the University granting the degree.

² These regulations may be found at pp. 188—192 of the *University Calendar* for session 1895-96, and in the *Calendars* for preceding sessions.

All others must fulfil the requirements of the new ordinance—(Ordinance No. 14, Glasgow No. 1—Regulations for Degrees in Medicine)—the principal provisions of which are as follows:—

I. Four degrees in Medicine and Surgery are conferred by the University of Glasgow, viz., Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The Degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, and the Degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Surgery.

II. Subject to regulations to be made from time to time by the University Court, the University may also confer diplomas in Special Branches of Medical and Surgical Practice on graduates of the University in Medicine and Surgery.

III. Before commencing his medical studies, each student shall pass a Preliminary Examination in (1) English, (2) Latin, (3) Elementary Mathematics, and (4) Greek or French or German: Provided always that, in the case of a candidate whose native language is not English, an examination in the native language of the candidate may be substituted for one in either French or German, and an examination in any other classical language for one in Latin or Greek.¹

IV. The extent and standard of the Preliminary Examination shall be determined by the Joint-Board of Examiners constituted under Ordinance No. 13 (Regulations as to Examinations) in accordance with the terms of that ordinance.

Under this section the Joint-Board have directed that for the Medical Preliminary Examination the papers set in Latin, Greek, and Mathematics shall be the same as those set on the lower standard in these subjects in the Arts and Science Preliminary Examination.²

In English, no set books shall be prescribed, nor shall a general knowledge of the life and works of the greater authors be expected of candidates, but one or two questions may be set, giving an opportunity to candidates to show a knowledge of famous literary works. The historical questions shall not be confined to any one period, but shall cover the whole of British History, and shall be set in such a way as to give an opportunity to candidates who have confined their studies to a single period to show their knowledge. A single three hours' paper shall be set, containing an Essay, a Paraphrase, two questions on History, two on Geography, four on Grammar (including correction of sentences, parsing, analysis of sentences, and derivations), two of a literary and general kind. Eight answers shall be required. The Essay, the Paraphrase, one answer on History and one on Geography shall be compulsory.

¹ The candidate for the Degrees of Bachelor of Medicine and Bachelor of Surgery must have been registered in the books of the General Medical Council at least five years prior to the date of his graduation. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, 54 George Square, Edinburgh, together with a printed form of application, which may be obtained from the Assistant Clerk (Matriculation Office, University), a certificate of having passed the Preliminary Examination, and satisfactory evidence of the applicant having attained the age of sixteen years.

² For details see p. 192.

One paper shall be set in French and one in German. The papers shall be of a lower standard than those set in these subjects in the Arts and Science Preliminary Examination. The time allowed for each of these papers shall be three hours. The paper in each subject shall comprise questions in Grammar, translation into English, a piece of English, and some short sentences in English of an idiomatic character, for translation.

It shall be in the option of any candidate for the Medical Preliminary to take the papers set on the higher standard for the Arts Preliminary in any of the subjects.

Candidates who, having taken English, Latin, Greek, Mathematics, or a Modern Language, on the higher standard, as prescribed by the Arts Ordinance for the Arts and Science Preliminary, have obtained a satisfactory percentage of marks, shall be held to have passed the Medical Preliminary in these subjects: Provided that all the required subjects are passed at no more than two examinations.

It shall be at the Board's discretion at all times in the case of any candidate for the Medical Preliminary who professes all his four subjects at one time, and who has obtained in all a number of marks equivalent to the sum of the marks required for a pass in each, to allow such candidate a pass in the whole examination, provided that in no single subject he has obtained less than half of the marks required for a pass, and that the pass-mark be reached in the English paper.

V. The Preliminary Examination shall be conducted in accordance with the provisions of Ordinance No. 13 (Regulations as to Examinations), and, subject to the provisions of the immediately succeeding section hereof, *a candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; Provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.*¹

VI. A degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination; and the Joint-Board of Examiners appointed under the provisions of Ordinance No. 13 (Regulations as to Examinations) shall have power to determine what examinations, other than those for the degrees hereinbefore mentioned, shall be accepted, either in whole or in part, in place of the Preliminary Examination.

The Joint-Board have issued the following rules under the heading:—Examinations accepted as exempting from the Preliminary Examination in Medicine: *Provided always that the regulations of the General Medical Council regarding the registration of students of Medicine be complied with:—*

1. In terms of the Medical Ordinances, “a degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination.”

2. Any candidate who produces a certificate of having passed the Preliminary Examination in Arts or Science in any Scottish Uni-

¹ The words in *italics* are taken from Ordinance No. 156, Section I.

versity, either at the University Examination or through the Leaving Certificate Examinations of the Scotch Education Department, or partly at the University Examination and partly through the Leaving Certificate Examinations, shall be held to have passed the Preliminary Examination for Medicine: Provided that the examination has included the specified subjects of General Education as required under the Regulations of the General Medical Council, and by Section III. of this ordinance.

3. A candidate who has passed the Arts and Science Preliminary Examination of the Joint-Board in any subject (Higher Standard where there is more than one) recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

4. A candidate who has passed in the Honours or Higher Grade in any subject of the Leaving Certificate Examinations of the Scotch Education Department recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

The regulation that all the subjects of the examination shall be passed at one or not more than two examinations shall not be held to apply to the above cases, 2, 3, and 4. But candidates complying with Rules (2, 3, and 4) must obtain a University Certificate specifying the examinations passed by them which have been accepted as equivalents to the Preliminary, and must present said certificate to the Medical Registrar in order to registration.

Further, each such candidate when applying for said certificate must, if he has not entered for any part of the Preliminary, produce a Matriculation Card from some one of the Scottish Universities.

5. Passes in the lower Grade of the Leaving Certificate Examinations of the Scotch Education Department will only be accepted as exempting from the Medical Preliminary Examination provided the examinations in all the requisite subjects have been taken and passed at one or not more than two examinations.

6. The following English and Irish University Examinations will be accepted¹ (provided they include all the subjects required under the regulations of the General Medical Council, and prescribed by Section III. of this ordinance), viz.:—

OXFORD Responsions, or Moderations—provided the candidate pass the examination of the Joint-Board in English.

CAMBRIDGE Previous Examination—provided that candidates who have passed it prior to Michaelmas, 1896, shall pass the examination of the Joint-Board in English. If passed after Michaelmas, 1896, the Previous Examination will be accepted as exempting *in toto*.

OXFORD Senior Local Examinations will be accepted *pro tanto*, provided that, as regards English, the certificate shall bear that the candidate has passed in divisions (a), (b), and (c).

OXFORD Higher Examination for Women will be accepted *pro tanto*.
CAMBRIDGE Senior Local Examinations will be accepted *pro tanto*.

The italicised words in Section V., page 244, shall be held to apply to the acceptance of these Examinations.

CAMBRIDGE Higher Local Examinations will be accepted *pro tanto*.
 OXFORD and CAMBRIDGE Schools Examination Higher Certificate will be accepted *pro tanto*, provided that, as regards Mathematics, the certificate shall bear that the candidate has passed in both Elementary and Additional Mathematics.

LONDON UNIVERSITY Matriculation Examination.

DUBLIN, TRINITY COLLEGE.—Public Entrance Examination.

ROYAL UNIVERSITY OF IRELAND.—Matriculation Examination.

VICTORIA UNIVERSITY.—Preliminary Examination; Entrance Examination in Arts.

By *pro tanto* is here meant that a certificate of having passed in the examination referred to, in any subject required for the Medical Preliminary Examination, shall, as regards that subject, exempt from further examination in the said Preliminary Examination, provided that all the required subjects shall be passed at one or not more than two examinations.

7. The examinations of the following Indian, Colonial, and Foreign Universities and Colleges will be accepted¹ (provided the examinations include all the subjects required by the General Medical Council and prescribed by Section III. of this ordinance), viz.:—

UNIVERSITIES OF (1) CALCUTTA, (2) MADRAS, (3) BOMBAY, (4) ALLAHABAD, and (5) PANJAB—Entrance Examination.

UNIVERSITIES OF (1) THE CAPE OF GOOD HOPE.—Matriculation Examination; (2) TASMANIA.—Matriculation Examination; (3) NEW ZEALAND.—Matriculation and Medical Preliminary Examinations; (4) MELBOURNE.—Matriculation Examination; (5) SYDNEY.—Matriculation Examination; (6) ADELAIDE.—Matriculation Examination, or its substitute, the Senior or Junior Public Examination.

THE PROVINCIAL EDUCATION DEPARTMENT OF ONTARIO.—Departmental Pass Arts Matriculation Examination.

TRINITY UNIVERSITY, TORONTO.—Matriculation Examination.

THE UNIVERSITY OF TORONTO.—Senior or Junior Matriculation Examination.

QUEEN'S COLLEGE AND UNIVERSITY, KINGSTON.—Matriculation Examination.

M'GILL UNIVERSITY.—Matriculation Examination.

KING'S COLLEGE, WINDSOR, NOVA SCOTIA.—Responsions.

DALHOUSIE COLLEGE, HALIFAX.—Matriculation Examination.

MOUNT ALLISON COLLEGE, SACKVILLE, NEW BRUNSWICK.—Matriculation Examination.

THE UNIVERSITY OF WINNIPEG.—Preliminary Examination in Arts.

VICTORIA COLLEGE, UPPER CANADA.—Matriculation Examination.

THE UNIVERSITY OF HALIFAX, NOVA SCOTIA.—Matriculation Examination.

THE UNIVERSITY OF FREDERICTON, NEW BRUNSWICK.—Matriculation Examination.

THE WESTERN UNIVERSITY OF ONTARIO.—Matriculation Examination.

THE UNIVERSITY OF MANITOBA.—Previous Examination.

¹ See note on page 245.

CODRINGTON COLLEGE (BARBADOS).—English Certificate for Students of two years' standing, and Latin Certificate, or "Testamur."

GERMANY AND OTHER CONTINENTAL COUNTRIES.—Gymnasial Abiturienten-Examen, and corresponding Entrance Examinations to the Universities.

[Students would do well to ascertain at the Matriculation Office whether their Preliminary Examination is complete before beginning their medical studies.]

PROFESSIONAL EDUCATION.¹

VII. Candidates shall be admitted to the Degree of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions:—

1. The candidate must have been engaged in medical study for at least five years.
2. In each of the first four years the candidate must have attended at least two courses of instruction, in one or more of the subjects of study specified in Sub-section 4 hereof—each course extending over a session of not less than five months, either continuous or divided into two terms; or, alternatively, one such course, along with two courses, each extending over a session of not less than two and a half months.
3. During the fifth or final year the candidate shall be engaged in clinical study for at least nine months at one or more of such public hospitals or dispensaries, British or Foreign, as may be recognised for the purpose by the University Court.
4. The candidate must, during his curriculum, have attended a course or courses of instruction in each of the following subjects of study, including such examinations as may be prescribed in the various classes, viz.:—

1. ANATOMY, - - - - -	{ During a course of not less than five months.
2. PRACTICAL ANATOMY, - - - - -	{ During two courses of not less than five months each.
3. CHEMISTRY, - - - - -	{
4. MATERIA MEDICA and THERAPEUTICS, - - - - -	
5. PHYSIOLOGY or INSTITUTES OF MEDICINE, - - - - -	
6. PRACTICE OF MEDICINE, - - - - -	
7. SURGERY, - - - - -	
8. MIDWIFERY and the DISEASES peculiar to WOMEN and INFANTS. Two courses of Midwifery, of three months each, provided different departments of Obstetric Medicine be taught in each of the courses, shall be reckoned equivalent to a course of not less than five months, - - - - -	{ During courses of not less than five months
9. PATHOLOGY, - - - - -	{
10. PRACTICAL CHEMISTRY, - - - - -	
11. PHYSICS (including the DYNAMICS OF SOLIDS, LIQUIDS, and GASES, and the RUDIMENTS OF SOUND, HEAT, LIGHT, and ELECTRICITY), - - - - -	
12. ELEMENTARY BOTANY, - - - - -	
13. ELEMENTARY ZOOLOGY, - - - - -	
14. PRACTICAL PHYSIOLOGY, - - - - -	
15. PRACTICAL PATHOLOGY, - - - - -	
16. MEDICAL JURISPRUDENCE and PUBLIC HEALTH, - - - - -	{ During courses of not less than two and a half months.

¹ For Order of Study recommended, see p. 100.

Provided always, in so far as regards the University of Glasgow, that—

(a) It shall be the duty of the Senatus to determine from time to time [after receiving through the Faculty of Medicine the opinion of the Board of Studies] the number of meetings of which such courses shall consist, and in what cases two half courses shall be deemed equivalent to a full course; and to report the determination to the University Court for its approval.¹

(b) It shall be the duty of the Professors and Lecturers to submit to the Senatus [after 1st October, 1894, the Board of Studies] annually at the end of the winter session a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. [The Board of Studies shall transmit the schemes to the Faculty of Medicine, who shall submit them to the Senate with such observations as they may think fit to make thereon.] The Senatus shall transmit such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.¹

(c) The University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

5. The candidate must have attended for at least three years the Medical and Surgical Practice of a General Hospital at Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons, and is recognised for the purpose by the University Court.²
6. The candidate must have attended Clinical Surgery during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical Surgery, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary surgeons of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.
7. The candidate must have attended Clinical Medicine during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical Medicine, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary physicians of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.

¹The Universities Commission, on 18th November, 1893, ordained that for the better carrying out of the purposes of these provisos the Senate should institute a Board or Boards of Studies in the Faculty of Medicine. See Section I., Ordinance No. 42, which received the approval of Her Majesty in Council on 28th May, 1894. The provisions of this supplementary ordinance have, in the text, been combined with the provisions of the original ordinance, by means of square brackets.

²On 7th October, 1892, the University Court recognised every General Hospital in the United Kingdom which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons.

8. The candidate must have attended a course of instruction in Mental Diseases, of such duration, and so apportioned between lectures, demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time determine.

Under this sub-section the Senate, with the approval of the University Court, has determined that each candidate for the Degree of M.B. and Ch.B. shall be required to attend a course of instruction in Mental Diseases, given by the University Lecturer or by a recognised teacher, consisting of not less than eighteen meetings. Six of these may be class-room lectures, and the others shall be demonstrations in the wards of an asylum for the insane.

9. The candidate must have attended a course of twenty-five meetings on Practical Pharmacy in a University or recognised School of Medicine, or have dispensed drugs for a period of three months in an hospital or dispensary, or in an establishment recognised by the Pharmaceutical Society, *i.e.* in the establishment of any chemist and druggist or pharmaceutical chemist of Great Britain, or any pharmaceutical chemist of Ireland, who is registered in the books of the Pharmaceutical Society of Great Britain or of the Pharmaceutical Society of Ireland respectively.¹
10. The candidate must have attended, for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician or surgeon, or of a member of the London or Dublin Society of Apothecaries. He must have acted as clerk in the medical and dresser in the surgical wards of a public hospital; and must also have availed himself, to such an extent as may be required by the Senatus, with the approval of the University Court, of opportunities of studying at an hospital or dispensary *Post-mortem* Examinations, Fevers, Diseases of Children, Ophthalmology, or such other special departments as may from time to time be determined.

Under this sub-section the Senate, with the approval of the University Court, has determined as follows:—

A. Each candidate for M.B. and Ch.B. shall be required to attend—

1. Demonstrations in the *post-mortem* room of a recognised hospital, with practical instruction in making *post-mortem* examinations. The student must have attended during his curriculum at least twenty examinations.
2. A course of clinical instruction in Fevers, consisting of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds.
3. A practical course of instruction in Ophthalmology of not less than twenty meetings. Six of these may be class-room lectures, and the others shall be for clinical instruction in the wards of a recognised hospital, or in the wards

¹ The explanatory words in italics are taken from Ordinance No. 34, Section II., issued by the Universities Commission, on 15th July, 1896, which came into operation on 11th May, 1897, having been on that date approved by Her Majesty in Council.

² This means a hospital recognised *ad hoc*, after application to the University Court in each case.

of a hospital and in a dispensary both recognised for the purpose. The course shall include sufficient practical instruction in the methods of examining the eye.

B. Each candidate is also recommended to attend the following :—(a) Diseases of Children, (b) Diseases of the Ear, (c) Diseases of the Throat and Nose, and (d) Diseases of the Skin, in short practical courses of ten meetings.

N.B.—This is not to be understood as preventing a teacher in any speciality giving a fuller course to such students as may desire to follow out more fully any particular branch.

11. The candidate must have attended, under the superintendence of a registered medical practitioner, twelve cases of labour, or such additional number as the Senatus, with the sanction of the University Court, may from time to time determine; or have attended for three months the practice of a lying-in hospital, or of the maternity department of a general hospital or other public charitable institution, and have conducted personally six, or such an additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.
12. The candidate must have been properly instructed in Vaccination at a Public Vaccination Station, by a Public Vaccinator, authorised by the proper Government Authority to grant Certificates of Proficiency in Vaccination.¹
13. No candidate for a degree shall be deemed to have attended a class as part of the curriculum necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

VIII. With respect to the places and institutions at which the studies of the candidate may be prosecuted, the following regulations shall have effect:

1. Two of the five years of medical study must be spent in the University of Glasgow, each year of study including always the attendances specified in Section VII., sub-section 2.
2. The remaining three years may be spent in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such medical schools or under such teachers as may be recognised for the purpose by the University Court, each year of study during the first four years including always the attendances specified in Section VII., sub-section 2.
3. Of the subjects of study specified in Section VII., sub-section 4, not less than eight must be taken in the University of Glasgow, or (subject always to the provisions as to attendance contained in the immediately preceding sub-sections) in some other University of the United Kingdom, or in some Foreign or Colonial University entitled to confer the Degree of Doctor of Medicine recog-

¹The recognised Vaccine Departments in Glasgow are—Western Infirmary and Royal Infirmary.

nised for the purpose by the University Court, or in a College incorporated with, or affiliated to a University entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court: Provided always that where in any of said subjects of study two or more courses are required, the taking of one of those courses shall constitute a taking of the subject for the purpose of this sub-section.

4. The remainder of such subjects of study may (subject always as aforesaid) be taken in such medical schools or under such teachers as may be recognised for the purpose by the University Court.
5. All candidates, not Matriculated Students of the University, availing themselves of the permission to attend the Lectures of Extra-Academical Teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having, in respect of such payment, a right to the use of the Library of the University.
6. The fee for attendance, for purposes of graduation, on the courses of instruction of recognised Extra-Academical Teachers in Glasgow shall be not less than the amount exigible for the corresponding courses in the University.
7. The University Court shall not recognise as qualifying for examination in any of the subjects specified in Section VII., sub-section 4, the class of any teacher who is at the time a teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects: Provided always that a Professor or other teacher in any endowed public College or institution, who by the terms of his appointment is required to teach more than one subject of medical study therein, may be recognised under sub-section 2 of this section, as a teacher of any one of the subjects which he teaches.
8. A teacher, attendance on whose course of instruction shall, before the date of the approval of this ordinance by her Majesty in Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such teacher may continue to be recognised as heretofore.
9. It shall be in the power of the University Court, if it shall see cause, at any time to withdraw or suspend any recognition which it may have granted.

IX. In the University of Glasgow it shall be the duty of the Professors of the subjects specified in Section VII., sub-section 4 hereof (except Practical Anatomy and such other subjects as the Senatus, with the approval of the University Court, may from time to time determine), so to conduct the courses that Students may receive instruction sufficient for graduation in any one of the said subjects by attendance

on one course of five or six months, or of two and a half or three months, as the case may be.¹

X. If any candidate shall, before presenting himself for his Preliminary Examination, have attended in any University of the United Kingdom, or in any University or Institution specially approved, or under any Teacher specially recognised for the purpose by the University Court, a course or courses of instruction in Physics, Chemistry, Botany, or Zoology, equivalent in the judgment of the Senatus to the qualifying course in the same subject in the University of Glasgow, such attendance shall (notwithstanding anything hereinbefore ordained) be held as entitling him to be examined in these subjects; and if the candidate shall have attended such course or courses in each of the said subjects, he shall be held to have completed his first year of Medical Study: Provided always that the evidence of such attendance at such equivalent course or courses shall be presented to the Senatus at the time when the candidate presents himself for his Preliminary Examination; and the Senatus shall, if satisfied, grant a certificate to that effect: Provided also that *the provisions of this section shall not have effect except where the University Court shall allow their application after a report by the Senatus Academicus, setting forth special grounds therefor in the case of any candidate named in the report.*²

PROFESSIONAL EXAMINATION FOR THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY.³

XI. Each candidate shall be examined both in writing and orally, and also clinically where the nature of the subject admits, in the following divisions, viz.:—*First*, in Botany, Zoology, Physics, and Chemistry; *Second*, in Anatomy, Physiology, and Materia Medica and Therapeutics; *Third*, in Pathology, and Medical Jurisprudence and Public Health; *Fourth*, in Surgery and Clinical Surgery, Practice of Medicine and Clinical Medicine, and Midwifery.

In subjects which admit of practical instruction, the examination shall be such as to test the practical acquirements of the candidate.

Provided always that if a candidate have obtained in a University of the United Kingdom, or other University specially recognised for the purpose by the University Court, a degree in Science or in Arts, granted in either case after a course of study and an examination in Botany, Zoology, Physics, and Chemistry, he shall be held to have passed his examinations in the said subjects.

¹ Doubt being entertained as to the construction of this Section, the question was submitted to the Universities Commissioners, and evoked from them the following deliverance:—

It is not intended to require of the Professor a complete course of instruction by lectures during each session, or to limit the examinations for degrees to subjects which shall be discussed in the lectures of the Professor at the time that the student attended the course. The word "instruction," as used in this Section, is to be held to include lectures upon such parts of the subject as the Professor may be able to overtake, supplemented by directions as to the use of text-books or other sources of information for the remainder of the subject: and it is also intended that the examinations may be taken over the whole field, even when the Professor has not been able to include it all in his course of lectures.

² The proviso in italics is taken from Ordinance No. 54, Section V., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

³ For Table of Fees and Dates of Examinations, see page 259.

Provided also that *if a candidate have completed in a University of the United Kingdom a course of study and passed an examination in Botany, Zoology, Physics, or Chemistry qualifying for a degree in Science or in Arts, he shall be held to have passed the examinations in such subject or subjects.*

If a candidate have obtained a degree in Science or in Arts in any University other than a University of the United Kingdom, granted in either case after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, it shall be in the power of the University Court to exempt such candidate from the examinations in such subject or subjects: Provided that the course of study and the standard of examination in each case are satisfactory in the judgment of the Senatus Academicus.¹

XII. Candidates who profess themselves ready to submit to an examination in the subjects comprised in the first division, viz.:—Botany, Zoology, Physics, and Chemistry, may be admitted to examination in all or any two of these subjects at any examination held after they have attended a full course in each of the subjects professed.

XIII. Candidates who have passed their examination in the subjects comprised in the first division may be admitted to examination in the second division at the end of the third winter session.

Provided that candidates who so desire may postpone their examination in *Materia Medica* and Therapeutics until the close of the summer session following.

XIV. Candidates who have passed their examinations in the subjects comprised in the first and second divisions may be admitted to examination in the third division at the end of the fourth winter session.

Provided that candidates who so desire may postpone their examination in Medical Jurisprudence and Public Health until the close of the summer session following.

XV. Candidates who have passed their examinations in the subjects comprised in the first, second, and third divisions may be admitted to examination in the fourth or final division, when they have completed the fifth year of study.

XVI. If any candidate at these examinations be found unqualified in one or more subjects he shall not again be admitted to examination unless he has pursued his medical studies for such time, and subject to such conditions, as the Faculty of Medicine may prescribe.

Under this section the Faculty of Medicine, with the sanction of the Senate, has laid down the following rule: No student, who in the Final Professional Examination has been found unqualified in one subject, shall be re-admitted to examination without furnishing evidence of having further studied the subject for such a period as the Examiners may fix.

XVII. If any candidate at these examinations be found to have passed in one or more subjects with sufficient merit, he shall not be liable to re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects comprised in the same division as hereinbefore specified.

XVIII. Every candidate must deliver, on or before such day as the

¹The words in italics are taken from Ordinance No. 54, Sections III. and IV., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

Senatus may from time to time determine, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation, and that he will not be, on the day of graduation, under articles of apprenticeship to any surgeon or other master.

XIX. After the candidate has satisfied the Examiners, the Dean of the Faculty of Medicine shall lay the proceedings before the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the Degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.¹

XX. Candidates for graduation shall produce evidence of their having conformed to the regulations which were in force at the time they commenced their medical studies: Provided that any student who began his medical studies before 1st January, 1892, shall be entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before² or after that date.

PROFESSIONAL EXAMINATION FOR THE DEGREE OF DOCTOR OF MEDICINE.

XXI. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine and in such of its special departments as the Senatus, with the approval of the University Court, by Regulations framed from time to time, shall determine; and he may present himself for examination in Clinical Medicine at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Medicine for the Degree of Doctor of Medicine shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable, upon at least three Medical cases. In the selection of the cases, special regard shall be given to the opportunities they afford for testing the candidate, not only in the ordinary methods

¹ For Table of Fees and Dates of Examination, see page 259.

² These regulations may be found at pp. 188–192 of the *University Calendar* for session 1895–96, and in the *Calendars* for preceding sessions.

of clinical investigation, but also in the more advanced methods requiring practical knowledge in the applications of the ophthalmoscope and laryngoscope, in the chemical and microscopical examination of excreta, the quantitative determination and microscopic characters of the chief constituents of blood possessing clinical importance, the recording by instruments of the condition of the circulation, the applications of electricity, etc.

Provided always that one of the cases on which a candidate is examined may, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Diseases of Women, Diseases of Children, Mental Diseases, Zymotic Diseases, Diseases of the Eye, Diseases of the Throat, Diseases of the Ear, Diseases of the Skin. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

The examinations for M.D. will be held in the month of November or December, each Session. Candidates must enter their names and lodge their Theses with the Assistant Clerk (Matriculation Office) on or before 1st October.

3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects which are exclusively Surgical; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself,¹ shall be lodged with the Dean of the Faculty of Medicine (at the Matriculation Office) on or before a date to be fixed by the Senatus (1st October).
4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such degrees on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to the examination in Clinical Medicine at any period of examination after he has received such degrees; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively surgical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

¹ The Faculty of Medicine give notice that no Thesis will be approved unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited: mere compilations will in no case be accepted.

*Bachelors of Medicine and Masters of Surgery of the University of Glasgow, who have graduated under the regulations in force before the fifth day of August, 1892, may proceed to the Degree of Doctor of Medicine under the provisions of this section, in the same manner as if they held the Degree of Bachelor of Surgery.*¹

PROFESSIONAL EXAMINATION FOR DEGREE OF MASTER OF SURGERY.

- XXII. 1. Subject to the conditions hereinafter specified the Degree of Master of Surgery shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged, subsequently to his having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in practice other than practice restricted to Medicine.
2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects:—Surgical Anatomy, Operations upon the dead body, and Clinical Surgery, and in such of the special departments of Clinical Surgery as the Senatus, with the approval of the University Court, by Regulations framed from time to time, may determine; and he may present himself for examination in these subjects at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Surgery for the Degree of Master of Surgery shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable on at least three Surgical cases.

Provided that one of the three Surgical cases on which a candidate is examined shall, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Surgical Diseases of Women, Diseases of the Throat, Diseases of the Eye, Diseases of the Ear. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

3. Each candidate for the Degree of Master of Surgery shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth Examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declara-

¹ Taken from Ordinance No. 54, Section VI., which was issued by the Universities Commissioners on 18th July, 1894, and came into operation on 11th May, 1895, having on that date been approved by Her Majesty in Council.

tion signed by the candidate that the work has been done and the Thesis composed by himself,¹ shall be lodged with the Dean of the Faculty of Medicine on or before a date to be fixed by the Senatus.

4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such degrees, on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to examination in the subjects specified in Sub-section 2 of this section, at any period of examination after he has received such degrees; but the Degree of Master of Surgery shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively medical, and unless his Thesis, in the judgment of the Faculty of Medicine, is of exceptional merit.

FEES.

XXIII. The fee to be paid for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall be twenty-two guineas, and the proportion of this sum to be paid by a candidate at each division of the examination shall be regulated from time to time by the University Court. The fee to be paid for the Degree of Doctor of Medicine shall be ten guineas, exclusive of any stamp duty which for the time may be exigible. The fee to be paid for the Degree of Master of Surgery shall be ten guineas.

EXAMINERS.

XXIV. The Examiners for graduation in Medicine in the University of Glasgow shall be the Professors in that University, together with such Lecturers in the University and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary: Provided that the Court shall make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. The examinations shall be conducted in writing and orally and also clinically, when the nature of the subject admits, under regulations framed by the Senatus subject to the approval of the University Court.

DISTINCTIONS ATTAINABLE BY STUDENTS AND GRADUATES OF MEDICINE.

Candidates who have shown special merit in any subject or subjects at any of the Professional Examinations will be announced as having passed in such subject or subjects "with distinction."

Candidates who have shown special merit as indicated by the aggre-

¹ See footnote on page 255.

gate results of the four Professional Examinations will be announced, at the time of Graduation, as having obtained Commendation or Honours, according to the degree of excellence.

In connection with the Higher Degrees in Medicine and Surgery two grades of distinction are also awarded, viz., Commendation and Honours. The Bellahouston Trustees have put it in the power of the University to award three Gold Medals yearly to those who having gained Honours are pronounced by the Senate on the Report of the Faculty of Medicine worthy of this highest distinction for the excellence of their Theses.

GRADUATION.

The terms for conferring Medical and Surgical Degrees in session 1904-5 are 3rd November, 1904; 2nd February, 1905; 18th April, 1905; and 18th July, 1905.

Candidates proceeding to graduation, if not already Members of the General Council of the University, are required by the Act, 44 and 45 Vict., ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council. This should in all cases be done at least two clear days before the day of graduation.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath,¹ formerly required to be taken and subscribed by every candidate on graduation:—

I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge.

REGISTRATION OF MEDICAL PRACTITIONERS.

Graduates should register as soon as possible with the Branch Registrar for Scotland, at 54 George Square, Edinburgh. Fee £5 1s. Additional qualifications, 5s. each. Forms of application may be had from the Assistant-Clerk (Matriculation Office).

¹ *The Oath was in these words:—*Testor Deum omnipotentem me hoc Iusjurandum pro virili servaturum; Victus rationem aegris commodam et salutarem præsripturum: nullius intercessione nec sponte noxium pharmaceum cuiquam propinaturum; sed sancte et caste vitam artemque meam instituturum; In quascunque domos intravero ad aegrotantium duntaxat salutem ingressurum et ab omni injuria inferenda præcul futurum: Quaecunque inter curandum videro audivero ve siquidem ea efferre non expediat silentio suppressurum.

TABLE OF EXAMINATIONS FOR DEGREES IN MEDICINE TO BE HELD DURING SESSION 1904-5.

Fees.	Names to be given in and Fees paid to Assistant Clerk 1 (Matriculation Office). Date. 2	Dates of Written Examinations and Hours at which the different Papers will be set. Printed Schedules with detailed instructions for filling up may be obtained from the Assistant-Clerk 1 (Matriculation Office). The Professional Oral Examinations follow immediately after the Written.					
		1904.	1905.	1906.	1907.	1908.	1909.
8th September, 1904,		Mon., 26th Sept., - Zoology - - - - -	Mon., 27th March, Zoology - - - - -	Mon., 27th March, Zoology - - - - -	Mon., 27th March, Zoology - - - - -	Mon., 27th March, Zoology - - - - -	Mon., 27th March, Zoology - - - - -
		Mon., 26th " - Materia Medica - - - - -	Mon., 27th " - Materia Medica - - - - -	Mon., 27th " - Materia Medica - - - - -	Mon., 27th " - Materia Medica - - - - -	Mon., 27th " - Materia Medica - - - - -	Mon., 27th " - Materia Medica - - - - -
		Tues., 27th " - Botany - - - - -	Tues., 28th " - Botany - - - - -	Tues., 28th " - Botany - - - - -	Tues., 28th " - Botany - - - - -	Tues., 28th " - Botany - - - - -	Tues., 28th " - Botany - - - - -
		Wed., 27th " - Anatomy - - - - -	Wed., 28th " - Anatomy - - - - -	Wed., 28th " - Anatomy - - - - -	Wed., 28th " - Anatomy - - - - -	Wed., 28th " - Anatomy - - - - -	Wed., 28th " - Anatomy - - - - -
		Wed., 28th " - Medical Jurisprudence - - - - -	Wed., 29th " - Medical Jurisprudence - - - - -	Wed., 29th " - Medical Jurisprudence - - - - -	Wed., 29th " - Medical Jurisprudence - - - - -	Wed., 29th " - Medical Jurisprudence - - - - -	Wed., 29th " - Medical Jurisprudence - - - - -
9th March, 1905,		Mon., 27th March, Zoology - - - - -	Mon., 27th March, Zoology - - - - -	Mon., 27th March, Zoology - - - - -	Mon., 27th March, Zoology - - - - -	Mon., 27th March, Zoology - - - - -	Mon., 27th March, Zoology - - - - -
		Mon., 27th " - Materia Medica - - - - -	Mon., 27th " - Materia Medica - - - - -	Mon., 27th " - Materia Medica - - - - -	Mon., 27th " - Materia Medica - - - - -	Mon., 27th " - Materia Medica - - - - -	Mon., 27th " - Materia Medica - - - - -
		Tues., 28th " - Botany - - - - -	Tues., 28th " - Botany - - - - -	Tues., 28th " - Botany - - - - -	Tues., 28th " - Botany - - - - -	Tues., 28th " - Botany - - - - -	Tues., 28th " - Botany - - - - -
		Wed., 28th " - Anatomy - - - - -	Wed., 28th " - Anatomy - - - - -	Wed., 28th " - Anatomy - - - - -	Wed., 28th " - Anatomy - - - - -	Wed., 28th " - Anatomy - - - - -	Wed., 28th " - Anatomy - - - - -
		Wed., 29th " - Medical Jurisprudence - - - - -	Wed., 29th " - Medical Jurisprudence - - - - -	Wed., 29th " - Medical Jurisprudence - - - - -	Wed., 29th " - Medical Jurisprudence - - - - -	Wed., 29th " - Medical Jurisprudence - - - - -	Wed., 29th " - Medical Jurisprudence - - - - -
25th May, 1905,		Thurs., 15th June, - Practice of Medicine - - - - -	Thurs., 15th June, - Practice of Medicine - - - - -	Thurs., 15th June, - Practice of Medicine - - - - -	Thurs., 15th June, - Practice of Medicine - - - - -	Thurs., 15th June, - Practice of Medicine - - - - -	Thurs., 15th June, - Practice of Medicine - - - - -
		Fri., 16th " - Midwifery - - - - -	Fri., 16th " - Midwifery - - - - -	Fri., 16th " - Midwifery - - - - -	Fri., 16th " - Midwifery - - - - -	Fri., 16th " - Midwifery - - - - -	Fri., 16th " - Midwifery - - - - -
		Fri., 16th " - (<i>Clinical Examinations begin</i>). - - - - -	Fri., 16th " - (<i>Clinical Examinations begin</i>). - - - - -	Fri., 16th " - (<i>Clinical Examinations begin</i>). - - - - -	Fri., 16th " - (<i>Clinical Examinations begin</i>). - - - - -	Fri., 16th " - (<i>Clinical Examinations begin</i>). - - - - -	Fri., 16th " - (<i>Clinical Examinations begin</i>). - - - - -

¹ For Women Students, Miss Galloway, Queen Margaret College.

² When names are not given in and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary Certificates, etc., lodged. Every candidate must matriculate at the University for the session in which he enters for professional examination or graduation.

5.—GRADUATION IN LAW.

Two Degrees in Law are conferred, after examination, by the University of Glasgow, viz., Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LL.B. from a Scottish University is held qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such qualification, except as stated on page 123.

By the Law Agents Act, 36 and 37 Vict., c. 63, the holder of a degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead of five, as required in the ordinary case; and by Act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on forms of Process, Civil and Criminal, and a similar provision is contained in the Act of Sederunt of 18th March, 1893.

Degree of LL.B.

The following are the provisions of Ordinance No. 39, General No. 11, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894,¹ began their course of study with a view to graduation in Law:—

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a graduate in Arts or one of the Universities of the United Kingdom; or of any Foreign or Colonial University specially recognised for the purpose by the University Court.

II. The course of study in Law for the Degree of Bachelor of Laws shall include the following subjects:—

- (1) Jurisprudence, General or Comparative, during a course of not less than forty lectures.
- (2) The Law of Nations or Public International Law, during a course of not less than forty lectures.
- (3) Civil Law during a course of not less than eighty lectures.
- (4) Law of Scotland, or Law of England, during a course of not less than eighty lectures.
- (5) Constitutional Law and History, during a course of not less than eighty lectures.
- (6) Conveyancing, during a course of not less than eighty lectures; or Political Economy, or Mercantile Law, during a course of not less than eighty lectures.
- (7) Any two of the following subjects, namely:—International Private Law, Political Economy, Administrative Law, and Forensic Medicine; in each case during a course of not less than forty lectures.

III. (1) The course of study necessary for the Degree of Bachelor of Laws shall extend over three academical years, one of which at least

¹ Students who began their course previous to 1894 may qualify themselves for graduation in Law under the old regulations, which are given at pp. 227-229 in the *University Calendar* for 1900-1901 and in the *Calendars* for preceding sessions.

must be spent in the University in which the candidate intends to graduate, the other two may have been spent in any other University or School of Law specially recognised by the University Court.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

IV. Candidates must undergo examination in the subjects prescribed in Section II. hereof; and they must pass at one examination in at least two of these subjects. Before presenting themselves in any subject the candidates must have attended the requisite course of instruction in such subject. Candidates who have passed an examination for another degree in any of the said prescribed subjects in the same University may be exempted from examination in such subject or subjects, provided that the Examiners are satisfied that the previous examination in such subject or subjects has been passed on a sufficiently high standard.

V. Every candidate for the Degree of Bachelor of Laws shall be examined both orally and in writing on each of the subjects in the course of study above prescribed in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Laws a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of or Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as Bachelor of Laws in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Laws without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council. [Approved on 28th May, 1894.]

Degree of B.L.

The following are the provisions of Ordinance No. 40, General No. 12, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894, began their course of study with a view to graduation in Law.

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law (B.L.) unless he be a graduate in Arts of one of the Universities of the United Kingdom, or of any Foreign or Colonial University specially recognised for the purpose by the University Court; or until he shall have passed—

A. The Preliminary Examination in the Faculty of Arts, or its equivalent, as specified in Ordinance No. 11 (General No. 6.—Regulations for Degrees in Arts); and

B. An Examination in one of the Scottish Universities, to be conducted by the Examiners in Arts, in the following subjects, on the standard of examination for the Ordinary Degree of Master of Arts:—

(1) Logic and Psychology; or, in the option of the candidate, Moral Philosophy.

(2) Latin.

(3) One additional Arts subject, not being one of those which belong also to the Faculty of Law.

And he must have studied at least one of these subjects in a full course in a Scottish University, or an equivalent course in another University approved by the University Court.

II. The course of study in Law necessary for the Degree of Bachelor of Law shall include the following subjects:—

1. Civil Law, during a course of not less than eighty lectures; or a half course in Civil Law where in any University a full course is not available: Provided that in the latter case, candidates who are not already graduates in Arts shall be required to take in addition a course in such subject in Arts as may be sanctioned by the Senatus Academicus, or a half course in one or other of the following branches of Law:—

(a) Jurisprudence, General or Comparative.

(b) The Law of Nations, or Public International Law.

(c) Constitutional Law and History.

(d) International Private Law.

(e) Mercantile Law.

(f) Administrative Law.

2. Law of Scotland, during a course of not less than eighty lectures.

3. Conveyancing, during a course of not less than eighty lectures.

4. Forensic Medicine during a course of not less than forty meetings of the class; or, in the option of the candidate, a half course in one of the branches of Law specified in Sub-section 1 of this section¹ if not already taken.

III. (1) The course of study in Law necessary for the Degree of Bachelor of Law shall extend over two academical years.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The candidate may prosecute his studies during the prescribed two years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially recognised by the University Court; but one at least of these years must have been spent, and all the examinations in the subjects mentioned in the preceding section must have been passed, at the University in which he intends to graduate.

IV. The candidate for the Degree of Bachelor of Law must undergo

¹ The remainder of this sub-section does not apply to the University of Glasgow which provides a full course in Civil Law.

examination and pass in the four or more subjects selected by him; but he may present himself for examination in one subject or group of subjects at a time, provided that he has completed the course of study for such subject or group of subjects, and provided also that in that case a higher standard of proficiency shall be exacted.

V. Every candidate for the Degree of Bachelor of Law shall be examined, both orally and in writing, on each of the subjects in the course of study above prescribed, in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Law a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of and Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examinations shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as a Bachelor of Law in any Scottish University under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Law without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council. [Approved on 28th May, 1894.]

SUBJECTS OF EXAMINATION.

The examinations for LL.B. and B.L. in session 1904-5 will embrace the following books and subjects, viz. :—

In Civil Law.—Institutes of Justinian (Ed. Moyle or Sandars) and the Class Lectures : also Dig., Lib. XVIII., Tit. I.—translated and annotated by Mackintosh—Roman Law of Sale.

In the Law of Scotland.—In addition to the Class Lectures, the books recommended are Bell's Principles of the Law of Scotland, and Erskine's Principles of the Law of Scotland. In Criminal Law, Macdonald's Criminal Law and Erskine's Principles. Recent editions of the works mentioned should be used.

In Conveyancing.—In addition to the Class Lectures, the books recommended are Duff's Feudal Rights, with Supplement; Lectures on Conveyancing, by Menzies; Lectures on Conveyancing, by A. M. Bell; and Craigie's Statutes.

In Mercantile Law.—In addition to the Class Lectures, the books recommended are Goudy on Bankruptcy, 3rd edition; Carver

on Carriage by Sea, Part I. and Part III.; Thorburn's Bills of Exchange Act, 1882; Bell's Principles, 10th edition, Book I., Chapter 15.

In Jurisprudence, General or Comparative.—Holland's Jurisprudence (any edition after the fourth); Maine's Ancient Law; Miller's Philosophy of Law. Reference may also be made to Hearn's The Aryan Household, Sidgwick's Elements of Politics, Seeley's Introduction to Politics, Pollock's Jurisprudence, and Holmes' The Common Law.

In the Law of Nations, or Public International Law.—Hall's International Law. Candidates are expected to show a general acquaintance with the history of Modern Europe. Pitt Cobbett's Leading Cases, and Tudor's Leading Cases in Mercantile and Maritime Law will be found useful for reference.

NOTE.—Candidates under the old regulations for LL.B. are required to sit also at the papers on Jurisprudence and International Private Law.

In International Private Law.—Rattigan's Private International Law, with the Scots cases referred to in the Class Lectures.

In Constitutional Law and History.—(1) The Outlines of English Constitutional History; (2) Existing Constitutional Law. In addition to the Class Lectures the books recommended are—Taswell-Langmead's English Constitutional History; Dicey's Law of the Constitution; Leading Cases in Constitutional Law, by Thomas.

NOTE.—Candidates for B.L. will only be examined on the half course of lectures they have attended, and on Taswell-Langmead's English Constitutional History.

In Forensic Medicine.—Signs of Death with relation to Crime; Proximate Causes of Death; Medico-legal Forms of Death; Identity; Survivorship; Wounds; Blood-stains and their Detection; Insurance; Sexual Crimes:—Rape and Criminal Abortion; Pregnancy in its Medico-legal aspects; Infanticide and Concealment of Pregnancy; Divorce in its Medico-legal relations; Legitimacy and Paternity; Evidence of Poisoning; Poisoning by Mercury, Opium, and Carbolic Acid; Alcoholism in its Medico-legal aspects; Insanity. (*Text-books*, Principles of Forensic Medicine: Guy and Ferrier; or Manual of Forensic Medicine: Dixon Mann.)

In Political Economy and other Arts Subjects.—The subjects of examination for the Degree of M.A.

No candidate for the Degree of B.L. is admitted to an examination in Law subjects until he has passed in all the subjects of the preliminary examinations, and not fewer than two subjects in Law can be taken up at one examination, except in case of candidates for the Degree of B.L. under the new regulations.

TABLE OF EXAMINATIONS FOR DEGREES IN LAW, TO BE HELD DURING SESSION 1904-5.

Fee. ¹	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office), Date. ²	Subjects of Examination.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.	
			September, 1904.	March 1905.
£1 1s. on each entry for Examination, and half more, if any, before Graduation. Total Fees— LL.B. £5 6s., B.L. £3 3s.	14th Sept., 1904, or 7th March, 1905.	Constitutional Law, -	Mon., 26th Sept., 9-12 noon.	Mon., 27th March, 9-12 noon.
		Civil Law, -	" " 2-5 p.m.	" " 2-5 p.m.
		Scots Law, -	Tues., 27th " 9-12 noon.	Tues., 28th " 9-12 noon.
		Public Internat. Law, -	" " 2-5 p.m.	" " 2-5 p.m.
		Jurisprudence, -	Wed., 28th " 9-12 noon.	Wed., 29th " 9-12 noon.
		Internat. Private Law, -	" " 2-5 p.m.	" " 2-5 p.m.
		Political Economy, -	" " 6-9 p.m.	" " 6-9 p.m.
		Conveyancing, -	Thurs., 29th " 9-12 noon.	Thurs., 30th " 9-12 noon.
		Forensic Medicine, -	" " 2-5 p.m.	" " 2-5 p.m.
		Mercantile Law, -	Friday, 30th " 9-12 noon.	Friday, 31st " 9-12 noon.

For Dates of the Preliminary Examination and of the Examinations in Arts subjects necessary for B.L., see pp. 195 and 219.

¹ Under the old regulations the fee for LL.B. is £5 6s.; for B.L., £3 3s.

² When names are not given in and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged.

6.—GRADUATION IN DIVINITY.

Degree of Bachelor of Divinity.

In Ordinance No. 63 the Universities Commission laid down the following regulations for this degree :—

I. No one shall be admitted to examination¹ as a candidate for the Degree of Bachelor of Divinity (B.D.) in any University unless he be (1) a graduate in Arts of that University, and have taken a complete Theological Course in a Scottish University or Universities, or in an institution or institutions specially recognised for the purpose of this ordinance by the University Court, or partly in a Scottish University or Universities and partly in such institution or institutions;² or (2) a graduate in Arts of any Scottish University or other University specially recognised as aforesaid, and have completed his Theological Course, of which not less than two years' attendance shall have been given in the University in which he presents himself for examination.

II. The examination shall in all cases be conducted at the seat of the University granting the degree, and the Examiners shall be the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.¹

III. Every student who at the time when this ordinance shall come into operation shall have completed a part of his Theological Course with a view to graduation as Bachelor of Divinity in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Divinity without complying with the provisions of this ordinance.

IV. The Degree of Bachelor of Divinity shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

This degree is conferred on such qualified candidates as have satisfied the Examiners of their proficiency in the following departments, viz. :—

I. Hebrew, New Testament Exegesis, and Apologetics.

II. Divinity, Church History, and Biblical Criticism.

Students who have completed the second year of their Divinity studies, subsequent to the termination of their course in Arts, may present themselves for examination in the First Department. Candidates are not admitted to examination in their Second Department *until they have completed their Theological Course*.

¹ Ordinance No. 154 gives the Senatus Academicus power to admit candidates to examination in not more than three of the subjects, after the completion of the second session of attendance on their Theological course.

² The University Court has recognised *pro tanto* every Theological College in the United Kingdom having a distinct staff of teachers for the separate subjects, in so far as the Theological course is subsequent to the Arts course.

The scheme of examination for session 1904-1905 is as follows :—

I. FIRST DEPARTMENT—

- (a) *Hebrew*.—(1) Isaiah xxi.—xxix. ; (2) Psalms cxx.—cl. ; (3) Book of Amos ; (4) Portions of unpunctuated Hebrew to be punctuated and translated ; (5) Translations from English into Hebrew.

Books which may be consulted :

- (1) Commentaries by Delitzsch, Cheyne, von Orelli, Skinner (Cambridge Bible), and G. A. Smith ; Driver's Isaiah, his Life and Times ('Men of the Bible' Series) ; (2) Commentaries by Delitzsch, Perowne, and Cheyne ; Cheyne's Origin of the Psalter ; (3) Driver's 'Joel and Amos' ; G. A. Smith, The Book of the Twelve Prophets ; (4 and 5) Müller's or Davidson's Hebrew Syntax ; Robertson's Hebrew Exercises.
- (b) *New Testament Exegesis*.—(1) Introduction to the Gospel according to Matthew ; (2) Exegesis of Matthew iv. 17—xvi. 20, with critical comparison of the parallel passages in Mark and Luke ; (3) Exegesis of the Epistle to the Philippians.

Books which may be consulted :

- (1) and (2) The relative Commentaries of Godet, Meyer, De Wette, or Alford ; Bleek, Synoptische Erklärung der drei ersten Evangelien ; (3) The Commentaries of Alford or Ellicott or Vaughan.
- (c) *Apologetics*.—(1) Philosophy of Religion ; (2) Christian Apologetics ; (3) Antitheistic Theories.

Books which may be consulted :

- (1) As in Kant, Hegel, Max Müller, and Principal Caird ; (2) as in Dr. Bruce's Apologetics, and Dr. Orr's Christian View of God and the World ; (3) as in Flint's Antitheistic Theories and Agnosticism.

II. SECOND DEPARTMENT—

- (a) *Divinity*.—(1) The Doctrine of Man (Anthropology) ; (2) The Doctrine of Sin and the Atonement ; (3) The Theology of Schleiermacher.

Books which may be consulted :

- (1) *Outlines of Biblical Psychology*, by J. T. Beck ; *The Bible Doctrine of Man*, by Professor Laidlaw ; *St. Paul's Use of the Terms Flesh and Spirit*, by Professor Dickson. (2) *The Christian Doctrine of Sin*, by Julius Müller ; *The Christian Doctrine of Sin*, by Principal Tulloch ; *The Spiritual Principle of the Atonement*, by G. S. Lidgett ; Crawford, Dale, and Macleod Campbell on the Atonement. (3) Pfleiderer's *Development of Theology in Germany* ; Lichtenberger's *History of German Theology* ; Schleiermacher's *Reden über*

Religion, trans. by Oman; Schleiermacher's *Christliche Glaube*; Bender's *Schleiermacher's Theologie*; *Schleiermacher*, by Rev. R. Munro.

- (b) *Church History*.—The Ecclesiastical History of England, Scotland, and Ireland in the first half of the Seventeenth Century (1600-1662).

Books which may be consulted (those italicised must be read):

The State Papers, Domestic; the Histories of *Clarendon*; Ranke, *Englische Geschichte*; *S. R. Gardiner* (History of England, of the Great Civil War, of the Commonwealth, and Constitutional Documents of the Puritan Revolution); *W. K. Hutton*, *History of English Church under Charles I.*; Lingard; Green, Hill Burton; *Haime Brown*, and Andrew Lang; the Works of Charles I.; of Abp. *Laud* (especially *Vol. III. Library of Anglo-Catholic Theology*); Prynne (especially *Canterburie's Doom*); Heylin, *Cyprianus Anglicus*; Carlyle, *Cromwell's Life and Letters*, and *Lives of Cromwell*, by *C. H. Frith*, and John Morley; Isaak Walton's *Lives*; Walker, *Sufferings of the Clergy*; Baxter, *History of his Life and Times* (Calamy's Abridgement); Evelyn, *Memoirs and Diary*; Masson, *Life of Milton*; Eden, *Life of Bp. Jeremy Taylor*; J. H. Blunt, *The Reformation of the Church of England*; Fuller's *Church History of Britain*; Collier's *Ecclesiastical History of Great Britain*; Calderwood's *History of the Kirk of Scotland*; Spottiswood; Spalding, *Memorials of the Troubles*; Bp. Guthry, *Memoirs*; R. Baillie, *Letters and Journals*; Sprott's *Scottish Liturgies of James VI.*; *The Scottish Liturgy, 1637*; Peterkin, *Records of the Kirk of Scotland*; Sermons (Cant and others at the taking of the Covenant, and Scottish Coronation of Charles II.); *Westminster Confession*; *Westminster Directory* (ed. Leishman); Mitchell, *Minutes of Westminster Assembly*; *Grab*; Stephen; Cunningham; McCrie's *Melville*; Mathieson, *Politics and Religion in Scotland*; Bp. Mant, *History of the Church of Ireland from the Reformation to the Union*; Hassencamp, *History of Ireland, chapters 3 and 4*; Lives of Abp. Ussher; Burnet, *Life of Bp. Wm. Bedell*; Ball, *Reformed Church of Ireland*; Killen, *Ecclesiastical History of Ireland*; Pullen, *Ecclesiastical History of Ireland*; Brennan, *Ecclesiastical History of Ireland*; *Olden*, *Church of Ireland* (in the "National Churches" Series).

- (c) *Biblical Criticism*.—(1) Textual Criticism. (2) Hermeneutics.

Books which may be consulted:

(1) Davidson, *Biblical Criticism*; Tregelles, *Treatise in Horne's Introduction*, Vol. IV.; Scrivener, *Introduction to the Criticism of the New Testament* (fourth edition); Westcott and Hort, *Prolegomena to the Greek Testament*; Nestle,

Textual Criticism of the Greek New Testament. (2) Davidson, *Sacred Hermeneutics* (1843), or *Treatise on Interpretation* in Horne's *Introduction*, Vol. II.; Ernesti, *Institutio Interpretis*; Immer, *Hermeneutik des Neuen Testaments*.

The scheme of examination for session 1905-1906 will be as follows :

I. FIRST DEPARTMENT—

- (a) *Hebrew*.—(1) Isaiah xl.—lxvi.; (2) Psalms i.—xli.; (3) Portions of unpunctuated Hebrew to be punctuated and translated; (4) Translations from English into Hebrew.
- (b) *New Testament Exegesis*.—(1) Introduction to the Acts of the Apostles; (2) Exegesis of Mark viii. 27—xvi. 20, with critical comparison of the parallel passages in Luke and Matthew; (3) Exegesis of the Epistle of James.

Books which may be consulted :

(1) Schneckenburger, *Ueber den Zweck der Apostelgeschichte*; Lekebusch, *Die Composition und Entstehung der Apostelgeschichte*; Spitta, *Die Apostelgeschichte*; (2) The relative Commentaries of Meyer, Morison, or Alford; Bleek, *Synoptische Erklärung der drei ersten Evangelien*; (3) The Commentaries of Alford or Mayor.

- (c) *Apologetics*.—(1) Philosophy and History of Religion; (2) Christian Apologetics; (3) Butler's *Analogy*.

Books which may be consulted :

(1) *Ueberweg's Grundriss der Geschichte der Philosophie* (translated); Pfeiderer's *Philosophy of Religion*; the works of Max Müller and Principal Caird; *History of Religion*, by Prof. Menzies. (2) *Apologetics*, by Prof. Bruce; *The Grounds of Theistic and Christian Belief*, by G. P. Fisher; Mair's *Studies in the Christian Evidences*. (3) *The Analogy* of Butler, ed. by Joseph Angus (Rel. Tract Society); Gladstone's *Butler*.

II. SECOND DEPARTMENT—

- (a) *Divinity*.—(1) The Person of Christ; (2) The Work of Christ; (3) The Ritschlian Theology.

Books which may be consulted :

The Systematic Theologies of Hodge, Dorner, and Oosterzee; Macpherson's *Christian Dogmatics*. (1) Dorner's *Person of Christ*; Pope's *Person of Christ*; Du Bose's *Oecumenical Councils*; Bruce's *Humiliation of Christ*; Ottley on the Incarnation; Gore on the Incarnation. (2) Macleod Campbell, Crawford, and Dale, on the Atonement; Milligan's *Resurrection and Ascension of our Lord*. (3) Ritschl's *Justification and Reconciliation*; Professor Garvie's *Ritschlian Theology*; Professor Orr's *Ritschlian Theology*.

- (b) *Church History*.—The Ecclesiastical History of England, Scotland, and Ireland from 1660 to 1700.

- (c) *Biblical Criticism*.—(1) Textual Criticism; (2) Hermeneutics.

TABLE OF EXAMINATIONS FOR DEGREES IN DIVINITY, FOR BLACK THEOLOGICAL FELLOWSHIP, FOR FINDLATER SCHOLARSHIP, AND FOR JAMIESON PRIZE, TO BE HELD DURING SESSION 1904-5.

Department.	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date. ¹	Fee.	Dates of Written Examinations and Hours at which the different Papers will be set.
First.	12th October, 1904.	£2 12s. 6d.	<div> <div>Tues., 18th Oct., 1904. Hebrew, - - - 9-12 noon.</div> <div> <div>" " Hebrew, - - - 2-5 p.m.</div> <div>Wed., 19th Oct., 1904. Apologetics, - - - 9-12 noon.</div> <div>" " New Testament Exegesis, 2-5 p.m.</div> </div> </div>
Second.	24th March, 1905.	£2 12s. 6d.	<div> <div>Thurs., 30th Mar., 1905. Divinity, - - - 9-12 noon.</div> <div>" " Textual Criticism, - 2-5 p.m.</div> <div>Frid., 31st Mar., 1905. Church History, - 9-12 noon.</div> <div>" " Hermeneutics, - - 2-5 p.m.</div> </div>

¹ Forms of application for examination may be obtained at the Matriculation Office. These forms, when filled up, must be forwarded by the candidates to the Dean of the Faculty of Theology, along with certificates of attendance on the required classes, and, having been certified by him, must then be transmitted to the Assistant-Clerk (Matriculation Office) on or before the date prescribed above. In entering for the Second Department candidates from other schools must produce, in addition to class certificates, evidence that they have completed, or are about to complete, their Theological Course.

7.—HONORARY DEGREES.

The powers of the *Senatus Academicus* to grant Honorary Degrees are regulated by Ordinance No. 41 of the Universities Commission (1889) of date 13th December, 1893, which received the approval of Her Majesty in Council on 28th May, 1894.

Degree of Doctor of Divinity.

The following are the regulations for the Degree of D.D. :—

I. At the commencement of every session, the *Senatus Academicus* in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Divinity, consisting of the Principal, three Professors from the Faculty of Theology (of whom the Professor of Divinity shall be one), and three other Professors to be selected by the *Senatus Academicus* from the other Faculties.

II. It shall be the duty of this committee to select persons to be recommended to the *Senatus Academicus* for the degree; but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present a reasoned report, embodying its recommendations to the *Senatus*.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the *Senatus* may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz. :—

- (a) Whether he is an alumnus of this University, and whether he already holds the Degree of B.D., or any other University Degree.
- (b) Whether he has published a contribution of merit to Theological Literature.
- (c) Whether his character and professional standing are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Divinity shall be moved in the *Senatus* except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

Degree of Doctor of Laws.

The following are the regulations for the Degree of LL.D. :—

I. At the commencement of every session, the *Senatus Academicus* in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Laws, consisting of the Principal and such Professors selected from the various Faculties as the *Senatus Academicus* may determine, provided that the total number of the committee shall not exceed twelve.

II. It shall be the duty of this committee to select persons to be recommended to the Senatus for the degree, but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present to the Senatus a reasoned report embodying its recommendations.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz.:—

- (a) Whether he is an alumnus of this or any other University, and whether he already holds any academical degree.
- (b) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and science.
- (c) And, in general, whether his character, profession, and position in society are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Laws shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

Academic Dress.

GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the graduates are expected to appear in the Gown and Hood proper to their degrees.

The ordinary Gowns to be worn by graduates of the University of Glasgow are of black silk or stuff, of similar shape to those appropriated to the corresponding degrees in the other British Universities.¹

The Hoods for the different degrees, as approved by the University Court on 19th May, 1893, are as follows:—

- B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).
- M.A., Black Silk, lined with Red Purple Silk.
- B.Sc., Black Silk, bordered with Scarlet Cloth and lined with Gold Coloured Silk (colour of Whin Blossom—*Ulex Europæa*).
- D.Sc., Scarlet Cloth, lined with Gold Coloured Silk.
- B.L., Black Silk, with an inside border of Venetian Red Silk (colour of Clove Carnations).

¹ The Robemakers to the University have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

LL.B., Black Silk, bordered with Scarlet Cloth and lined with Venetian Red Silk.

LL.D., Scarlet Cloth, lined with Venetian Red Silk.

M.B. and C.M., Black Silk, bordered with Scarlet Cloth and lined with Scarlet Silk.

M.D., Scarlet Cloth, lined with Scarlet Silk.

B.D., Black Silk, bordered with Scarlet Cloth and lined with a light Cherry Silk.

D.D., Scarlet Cloth, lined with White Silk.

UNDER-GRADUATES.

By a Statute of the Commissioners appointed by the Act, 1690, chapter XVII. of the Parliament of Scotland, "for the Visitation of Universities and Schools," it was enacted that "all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges," and that "the Regents or Masters be obliged to wear black gowns, and the students red gowns; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice." It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring the students to conform to the ancient practice of this University as to academic dress; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the academical dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that the proper academic dress for students in Arts is the red gown.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the red gown.

CEREMONY OF GRADUATION.

The following are the regulations adopted by the Senate:—

All degrees honorary or gained by examination, shall be publicly conferred, except in special cases to be decided by the Senate.

Candidates for graduation are required to appear in black gowns with the hoods appropriate to their degrees; those who are already graduates, in the costume proper to their previous degree.

X.—BURSARIES, SCHOLARSHIPS, Etc., PRIZES.

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations.

In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, etc., by a "preference" the Senate understand, in every instance, a preference *ceteris paribus*.

The following is the general ordinance issued by the Universities Commission with regard to Bursaries, Scholarships, and Fellowships, which have taken effect prior to the 30th day of August, 1864 :—

ORDINANCE NO. 57 (GENERAL, NO. 19.—REGULATIONS AS TO BURSARIES, SCHOLARSHIPS, AND FELLOWSHIPS).

GENERAL.

I. For the purposes of this ordinance, bursaries in the Faculty of Arts (hereinafter referred to as bursaries in Arts) shall be deemed to be the bursaries now attached to the said Faculty by Deed of Foundation or by custom.

II. Bursaries in Arts heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study approved by the Senatus Academicus in subjects included in the curriculum for Degrees in Arts or in Pure Science.

III. All bursars in Arts, subject to the provision as to the fourth year of tenure contained in the immediately preceding section, shall attend in each year at least two classes qualifying for graduation in Arts, and shall duly perform the work of these classes: Provided (1) that, for the purposes of this section, the classes known as Middle Classes, so long as the same exist, may be attended in place of classes qualifying for graduation; and (2) that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to permit such bursars as they shall from time to time select to attend classes qualifying for graduation in Pure Science in place of classes qualifying for graduation in Arts.

IV. It shall be in the power of the Senatus Academicus to suspend or deprive a bursar, scholar, or fellow on the ground of misconduct, or, if it think fit, on the ground of his failure to obtain class certificates or to produce such other evidence as may be required that he is prosecuting his studies in a manner satisfactory to the Senatus Academicus.

V. Bursaries in Divinity heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study in Divinity approved by the Senatus Academicus.

VI. In the case of a bursary, scholarship, or fellowship, not in the gift of a patron, becoming vacant by forfeiture or otherwise before the expiry of the period of tenure, it shall be in the power of the Senatus

Academicus, with the approval of the University Court, to determine as to the disposal thereof, or of the income thereof, during the remainder of the said period.

VII. Any bursary tenable in several Faculties successively shall not be attached to any one of such Faculties in any year other than a year in which in ordinary rotation it would have been attached to such Faculty.

VIII. It shall be in the power of the Senatus Academicus to require, as a condition of tenure, any holder of a scholarship or fellowship who is a graduate to engage in teaching within the University or to conduct tutorial classes, unless he shall satisfy the Senatus Academicus that he is pursuing special higher studies, or that he is engaged in original research.

IX. Each Examiner at competitions for bursaries, scholarships, or fellowships shall receive suitable remuneration, and it shall be in the power of the University Court to charge the funds of bursaries, scholarships, or fellowships with the necessary expenses of examination.

OPEN BURSARIES.

X. (1) The subjects of the examination for open bursaries in Arts of the first year shall be the subjects prescribed for the Preliminary Examination in Arts instituted by Ordinance No. 11 (General, No. 6—Regulations for Degrees in Arts), Section III. The examination shall be taken at the Spring or the Autumn Preliminary Examination, according as the University Court shall determine, and shall be upon the same papers: Provided that the Senatus Academicus may, for purposes of competition, subject candidates to any further test that may be deemed necessary.

(2) Candidates for such bursaries who select in the Bursary Competition Examination, Latin, Greek, or Mathematics, shall, for the purposes of the competition, take the papers of the higher standard in those subjects: Provided that nothing herein contained shall prevent a candidate passing the Preliminary Examination if he complies with the provisions of Ordinance No. 11 (General, No. 6.—Regulations for Degrees in Arts), and Ordinance No. 44 (General, No. 16.—Regulations for Degrees in Arts Supplementary to Ordinance No. 11).

(3) No candidate shall, except as hereinafter provided, obtain a bursary in Arts who shall not have passed the Preliminary Examination in Arts: Provided that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to admit to a bursary in Arts a candidate who shall have passed in at least three subjects of the Preliminary Examination, on the condition that he shall not retain the bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as bursar: Provided also that this power shall lapse after the expiry of seven years from the date hereof unless it be renewed by ordinance.

XI. It shall be competent for the Senatus Academicus, with the approval of the University Court, from time to time to make regulations as to the conditions under which persons shall be eligible to compete for bursaries of the first year in the Faculties of Arts and

Science : Provided always that no student, who has during a winter or summer session attended any class qualifying for graduation in the said Faculties in any Scottish University, shall be eligible to compete for such bursaries.

XII. (1) In determining the marks to be assigned to the several subjects of the Bursary Competition Examination, English, Latin, Greek, and Mathematics shall each have assigned to them double the marks assigned to any other subject.

(2) Candidates may select not more than five subjects for examination from the subjects of the Preliminary Examination in Arts, and no candidate shall be credited with marks in any subject in which he has not obtained such proportion of the total number of marks assigned to that subject as the Senatus Academicus may from time to time prescribe.

XIII. The Senatus Academicus, in determining the results of the Bursary Competition Examination, may award bursaries in Arts of the first year in respect of exceptional distinction in any one branch of study : Provided that this power shall not be exercised with regard to more than two bursaries in any one year.

XIV. Bursaries open for competition to students entering on their first session of attendance in the Faculty of Medicine shall be tenable only by those students who have passed the Preliminary Examination in Medicine, or who have been exempted therefrom in accordance with the provisions of Section VI. of Ordinance No. 46 (St. Andrews, No. 4.—Regulations for Degrees in Medicine), Ordinance No. 14 (Glasgow, No. 1.—Regulations for Degrees in Medicine), Ordinance No. 15 (Aberdeen, No. 1.—Regulations for Degrees in Medicine), or Ordinance No. 16 (Edinburgh, No. 1.—Regulations for Degrees in Medicine), and who have not attended any class qualifying for graduation in Medicine : Provided always that the last-mentioned condition shall not be held to exclude a candidate who may have attended the class of Physics, Chemistry, Botany, or Zoology, otherwise than as part of a graduation course in Medicine.

RESTRICTED AND PREFERENTIAL BURSARIES.

XV. Candidates for bursaries in Arts which are not awarded by open competition shall present themselves for the Preliminary Examination in Arts prescribed by Ordinance No. 11 (General, No. 6.—Regulations for Degrees in Arts), Section III., and no bursary shall, except as hereinafter provided, be awarded to any candidate who shall not have passed the Preliminary Examination in Arts : Provided that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to admit to a bursary in Arts not awarded by open competition a candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as bursar.

XVI. In the case of a bursary, scholarship, or fellowship in the gift of a patron, including bodies corporate and not corporate, becoming

vacant by forfeiture or otherwise during the period of tenure, the *Senatus Academicus* shall forthwith give notice of the vacancy to the patron, who may, within such time as the *Senatus* shall fix, appoint a qualified student to fill the vacancy ; and if he fail to do so within such time, the *Senatus Academicus* may select a deserving student to fill the vacancy until the next Preliminary Examination at which bursaries are awarded, when the patron's right to present shall revive.

XVII. On the occurrence of a vacancy in any bursary in the gift of a patron, including bodies corporate and not corporate, at the expiry of the period of tenure, the *Senatus Academicus* shall give notice of such vacancy to the patron of the bursary and of the date fixed for the Preliminary Examination next ensuing at which bursaries are awarded ; and the patron may, if he think fit, submit to the *Senatus* the names of two or more candidates eligible for such bursary, who shall undergo an examination to be conducted by the Examiners for open bursaries in the University, and the result of the examination shall be communicated to the patron for his information, who shall thereafter present to the bursary.

XVIII. In the case of a bursary in the gift of a patron, including bodies corporate and not corporate, if no qualified person be presented before the date of the Preliminary Examination intimated in terms of the immediately preceding section, the bursary shall be open to unrestricted competition for that year : and in the event of no qualified person being presented as before provided at the beginning of the next academical year, the *Senatus* may either throw open the bursary to unrestricted competition, or continue the same to the student to whom it had previously been awarded : Provided that this section shall not apply in cases where the patron shall previously satisfy the *Senatus Academicus* that proper arrangements have been made for the selection of a bursar.

MISCELLANEOUS.

XIX. In the case of bursaries designed for poor students, the *Senatus Academicus* shall satisfy itself that the circumstances of candidates are such as to entitle them to the benefit of the endowment, and for this purpose the *Senatus* may require that a declaration be made by a parent or guardian, or by the minister of religion or school-master, of each candidate as the Court shall think fit.

XX. [Preferences and restrictions cancelled. These have been noted under each bursary concerned.]

XXI. Nothing herein contained shall apply to any bursary or endowment granted by any incorporation or society whose funds, capital or revenue, have been and are contributed and paid by the members of such incorporation or society by way of entry monies or other fixed or stated contributions.

XXII. The *Senatus Academicus*, with the approval of the University Court, shall prescribe the subjects of examination and the conditions of competition for bursaries, scholarships, or fellowships, in so far as the same are not prescribed by ordinance or by deed of foundation.

XXIII. The provisions of any Ordinance of the Commissioners under

the Universities (Scotland) Act, 1858, in so far as inconsistent with the provisions of this ordinance, are hereby repealed.

XXIV. This ordinance shall come into force from and after the 1st day of January, 1895, or as soon thereafter as it may be approved by Her Majesty in Council: Provided that nothing herein contained shall extend to, or affect the interests of, any person holding a bursary, scholarship, or fellowship at the date of its coming into effect. [Issued on 30th July, 1894; approved on 11th May, 1895.]

BURSARIES FOR WOMEN.

On 10th March, 1898, the University Court, in virtue of the power conferred by Ordinance No. 58, Section I., resolved to appropriate to competition, without restriction as to sex, all the open bursaries tenable in Arts, Science, or Medicine, which have taken effect prior to 30th August, 1864. To a number of other Bursaries either men or women may be appointed. In the following lists of Bursaries arranged according to Faculties, *italics* are used in printing the names of those Bursaries for which both men and women are eligible.

A.—BURSARIES ARRANGED ACCORDING TO FACULTIES.

BURSARIES IN THE FACULTY OF THEOLOGY.

Bursars in the Faculty of Theology are required to attend each session the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Adam, John, - - - - -	3	4	£18
Black, - - - - -	2	3	£38
Boyd and Sanders, - - - - -	1	3	£13 16/8
Boyd and Wilson, - - - - -	1	3	£24 6/8
Brown or Ettles, - - - - -	2	3	£28
Dundonald, - - - - -	6	3	£41 2/6
Gilhagie and Struthers, - - - - -	1	3	£19 12/8
Hamilton, - - - - -	3	3	£25
Hastie, - - - - -	2	3	£26
Logan, - - - - -	1	3	£17
Lorimer, - - - - -	4	3	£24 and £16
Lumsden, - - - - -	1	4	£15
Macfarlane, James, - - - - -	1	3	£25
Marshall, - - - - -	1	4	£16
Morgan, - - - - -	8	1	£20
Muir, - - - - -	1	3	£32
Muir Divinity, - - - - -	2	2	£25
Notman, - - - - -	1	3	£18
Ross, John, jun., - - - - -	1	3	£32
King William's, - - - - -	2	3	£20

BURSARIES IN THE FACULTY OF LAW.

Macfarlane, Robert, - - - - -	—	—	—
Merchants' House, - - - - -	1	3	£25
Walkinshaw-Young, - - - - -	1	2	£16
Major Young's Fund, - - - - -	2	6 and 2	£22

BURSARIES IN THE FACULTY OF MEDICINE.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Arthur, ¹ - - - - -	1	3	£20
Brisbane, - - - - -	1	4	£40
<i>Buchanan Society</i> , ² - - - - -	2	4 or 5	£35
Davidson, - - - - -	1	3	£32
<i>Gardiner</i> , ² - - - - -	1	2	£14
<i>Gibson, Dr. Thomas</i> , ² - - - - -	1	4	£36
Glasgow Highland Society, - - - - -	7	4	£25
<i>Logan</i> , ² - - - - -	1	4	£17
Lorimer, - - - - -	4	3	£24 and £16
Macarthur, - - - - -	1	2	£20
Macfarlane, John, - - - - -	1	3	£40
<i>Mackintosh</i> , ² - - - - -	1	1	£31
Marshall, - - - - -	1	4	£16
Merchants' House, - - - - -	2	4	£25
Monteith, John, - - - - -	2	2	£21
Paterson, James A., - - - - -	8	4	£35 and £25
Rainy, - - - - -	2	2	£20
Walton, - - - - -	1	4	£34
Weir, Andrew, - - - - -	1	1	£16

BURSARIES IN THE FACULTY OF SCIENCE.

Agricultural College, - - - - -	6	3	£50 and £40
<i>Buchanan Society</i> , ² - - - - -	1	4	£30
Cuthbertson, Donald, - - - - -	1	3	£32
Elder, - - - - -	2	2	£50
Kerr, Malcolm, - - - - -	2	3	£22
M'Ewen, Malcolm (Arts or Science), - - - - -	1	4	£16
Metcalfe, - - - - -	4	2	£25
Muir (Civil Engineering), - - - - -	2	1	£12 10/
Pender Memorial, - - - - -	1	1	£52
Shipwrights' Company, - - - - -	1	3	£50
Strang, - - - - -	4	3	£20
Young, George, - - - - -	1	1	£35

BURSARIES IN THE FACULTY OF ARTS.

Bursars in the Faculty of Arts are required to attend at least two classes each session.

Adam, James, - - - - -	2	4	£11
Adamson, - - - - -	1	3 or 4	£20
Barbour (Kilbarchan), - - - - -	1	3	£20
Biggart Memorial, - - - - -	10	4	£25
Black, - - - - -	2	4	£19
Blackquarry School, - - - - -	1	4	£12
Brand, - - - - -	3	4	£27
Brown, Ebenezer, - - - - -	1	3	£38
Browne (Ayrshire), - - - - -	2	4	£22
Brown-Paton, - - - - -	2	3	£16
<i>Buchanan</i> , ² - - - - -	2	3	£13
<i>Buchanan Society</i> , ² - - - - -	3	3	£20
<i>Clark, John (Mile-end)</i> , ² - - - - -	24	4	£30

¹ Open to women students only.

² Both men and women are eligible.

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Cowan, - - - - -	1	3	£26 13/4
Craig, - - - - -	1	4	£25
Craig, Archibald, - - - - -	1	2	£9
Crawfurd and Brown, ¹ - - - - -	1	4	£19 13/4
Davidson, - - - - -	1	3	£32
Duncan's Bute, - - - - -	2	4	£35
Dundonald, - - - - -	8	4	£40
Ewing, James, - - - - -	4	4	£20
Forfar, ¹ - - - - -	5	4	£36
Forrester, ¹ - - - - -	1	3	£24
Foundation, ¹ - - - - -	2	4	£20
Franco-Scottish Society, ¹ - - - - -	4	1	£30
Fullarton of Overton, - - - - -	5	2	£22
Gardiner, ¹ - - - - -	1	2	£14
Gartmore, ¹ - - - - -	1	3	£21
General Council, ¹ - - - - -	4	3 or 2	£20
Glasgow City Educational Endowm'ts, ¹	20	4 or 2	£25
Grant, George, - - - - -	1	3 or 4	£38
Grant, George, jun., ¹ - - - - -	1	4	£38
Hamilton, - - - - -	3	3	£20
Hamilton Educational Trust, - - - - -	3	3	£15
Hannay, - - - - -	3	3	£15
Hastie, ¹ - - - - -	1	4	£26
Highland Society, Glasgow, - - - - -	12	4	£20
Hill, - - - - -	2	3	£15
Howison and Gilchrist, - - - - -	1	4	£17
Hutchesons' Educational Trust, - - - - -	20	4	£20
Hyndford and Ross, - - - - -	1	4	£10 16/8
Jaffrey, John Ferguson, - - - - -	1	2	£34
Kerr, Malcolm (Nat. Phil.), - - - - -	1	3	£20
Laing, Alexander, - - - - -	1	3	£20
Laing, James, ¹ - - - - -	8	4	£25
Laing, ¹ - - - - -	6	2	£27
Leadbetter, - - - - -	1	4	£9
Leyden, John, - - - - -	1	3	£13
Lochhead, James, - - - - -	1	3	£16
Lochhead and Mitchell, - - - - -	2	4	£33
Lorimer (Phil.), - - - - -	4	3	£24 and £16
Lorimer (Math.), ¹ - - - - -	4	3	£24 and £16
Lusk, - - - - -	1	3	£35
M'Crie, - - - - -	4	4	£25
M'Culloch, - - - - -	1	4	£18
MacDougall, - - - - -	3	3	£33
M'Ewen, Malcolm (Arts or Science), - - - - -	1	4	£16
MacGrouther, - - - - -	2	4	£20 and £15
M'Kissack, - - - - -	1	4	£20
Maclean Trust (Arts), - - - - -	4	4	£25
Maitland Club, - - - - -	1	—	—
Marshall Trust, ¹ - - - - -	20	5	£30
Menzies, - - - - -	4	4	£45
Merchants' House, - - - - -	1	4	£25

¹ Both men and women are eligible.

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Monteith, - - - - -	3	3	£14
Morgan, - - - - -	16	1	£20
Muir (Mathematics, Senior), - - -	1	1	£16
Muir (Mathematics, Junior), - - -	1	2	£8
Paterson, James, - - - - -	1	4	£20
Paterson, James A., - - - - -	8	3	£35, £25, and £20.
Patrick, - - - - -	3	4	£32
Perthshire Society, - - - - -	1	3	£25
Pollock, - - - - -	3	3	£37
Ramsay-Walker, - - - - -	2	4	£12
Scott (Sir Walter), - - - - -	3	4	£25
Stevenson of Dalry, - - - - -	2	4	£33
Stewart, A. & B., - - - - -	7	4	£20
Stewart, ¹ - - - - -	3	4	£15
Thomson, James (Philosophical), -	1	2	£10
King William's, ¹ - - - - -	2	3	£15

BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.

Ardkinglass, - - - - -	1	6	£9 10/
Buchanan (Bellfield), - - - - -	2	7	£47
Leighton, - - - - -	1	3	£18
Williams, - - - - -	4	3 or 4	£40

BURSARY IN THE FACULTIES OF ARTS OR THEOLOGY.

Lam ¹ , - - - - -	1	—	£12
Simson, - - - - -	1	—	£18

BURSARIES IN THE FACULTIES OF LAW OR MEDICINE.

Stewart, A. & B., - - - - -	4	3	£50
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BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.

Macdonald, - - - - -	2	4	£16
William Whyte, - - - - -	4	4	£25

BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.

Armagh, ¹ - - - - -	3	3	£48
Bell, - - - - -	—	—	£50
Hutcheson, Thomas, - - - - -	1	4	£11 2/23

BURSARIES IN ANY FACULTY.

Ayrshire Society, - - - - -	4	3	£15
Celtic Society (Campbell), - - -	1	1 or more	£5
Denny, - - - - -	4	4	£30
Dumfriesshire Society, ¹ - - - -	2	4	£15
Ferguson, James, - - - - -	2	2	£95
Forrest, - - - - -	5	5 or less	£22
Gibson, John, - - - - -	2	3	£20
Kintyre (Ker), - - - - -	1	3	£20
Kintyre (Alexander Love), - - -	1	4	£11
M'Kechnie, - - - - -	2	4	£35
Pratt, ¹ - - - - -	2	4	£20
Shearer, - - - - -	3	3	£30
Smith, - - - - -	1	4	£18
Stillic, - - - - -	1	1	£5
Taylor, ¹ - - - - -	2	4	£7

¹ Both men and women are eligible.

B.—BURSARIES (ALPHABETICALLY ARRANGED).

JAMES ADAM BURSARIES (*Arts*).—These bursaries were founded by the Rev. James Adam, Minister of Cumbrae, who died in 1830, and were originally three in number. In appointing to one of the bursaries, preference was given to the kindred of the founder, and in appointing to another to students of the name of Adam. By Ordinance No. 80 of the Universities Commission (1889) these restrictions were removed, and the three bursaries were combined into two of equal value. The bursaries are tenable for four years, but if a bursar graduate at the end of three years he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to these bursaries. The appointment is vested in the Earl of Glasgow, the Professor of Divinity, and the Minister of Cumbrae, the exercise of their patronage being regulated by Ordinance No. 57, Sections xv.—xviii. Value, about £11 per annum each.

Bursar.—Donald C. B. Gordon, 1901.

JOHN ADAM BURSARIES (*Theology*).—Three in number, founded by Mr. John Adam, of the Inner Temple, who died in 1836. The founder gave a preference to his own kindred and to students of the name of Adam or Dollar. By Ordinance No. 57 of the Universities Commission (1889) this preference was cancelled. They are open to competition to students in Theology of the first year; and, after examination, are adjudged to the three students who shall be declared to be the most deserving, and to have made the highest attainments in Latin, Greek, Logic, Moral and Natural Philosophy, and Mathematics. The trustees and patrons are the Principal, the Professor of Theology, and the five Professors of the Gown Classes. These Bursaries are tenable for four years, subject to the provisions of Ordinance 57, Section v. Value, £18 to each bursar.

Bursars.—¹Hector MacLean, 1901; ¹Neil M'Lellan, 1901.

ADAMSON BURSARY (*Arts*).—This Bursary was founded by the Rev. David Adamson, minister of Fintry, in 1674, for a student in Philosophy, and was restricted to sons of freemen in one of the seven Incorporate Trades of Stirling. This restriction was removed by Ordinance No. 57 of the Universities Commission (1889). The Bursary is tenable for four years by a student entering the Greek Class, for three years by a student entering the Logic Class; and the appointment is vested in the Convener Court of Stirling. Value, the free proceeds of the capital, which now amounts to about £500.

AGRICULTURAL COLLEGE BURSARIES (*Science*).—The Governors of

¹ Bursar's Divinity Course finished.

the West of Scotland Agricultural College have instituted a scheme of Bursaries, of the value of £50 and £40 respectively, each tenable for three years. They are awarded on the results of the Science Preliminary Examination held in Autumn. Bursars must attend the curriculum of classes in Glasgow, and comply with the conditions required to qualify for the degree of B.Sc. in Agriculture of the University of Glasgow, and must further present themselves at the examinations for the National Diploma in Agriculture. Further particulars may be ascertained by applying to Principal Wright, 6 Blythswood Square, who will receive applications up to 1st September. (Two vacancies.)

Bursars—¹John Struthers, M.A. (£50), 1901; ¹Robert D. Watt (£40), 1901; William Stevenson (£50), 1902; Neil Leitch (£40), 1902; John H. Smith (£50), 1903; James Johnston (£40), 1903.

ARDKINGGLASS BURSARY (*Arts and Theology*).—This Bursary was founded in 1733, by Sir James and Lady Campbell, out of a fund which Colonel John Blackader of Barndennoch, Glencairn, Dumfriesshire, had by his Will set aside for pious uses, and was tenable for eight years—five in Languages and Philosophy, and three in Divinity. It is now regulated by Ordinance No. 87 of the Universities Commission (1889). A bursar may hold the Ardinglass Bursary for three years in the Faculty of Arts, and for three years in the Faculty of Divinity, and no longer; but a bursar, who at the end of the third year of his tenure has failed to pass all the examinations necessary for graduation in Arts, shall forfeit the Bursary, and in that event it shall be lawful for the patron to nominate a candidate, who shall be a Master of Arts, or shall have passed the examinations necessary for admitting him to that Degree, and shall be entering on his course of study in the Faculty of Divinity; failing such nomination by the patron, the Bursary shall be awarded by the Senate to a candidate qualified as aforesaid, under such conditions as the Senate shall prescribe, but a Bursar thus nominated shall not hold the Bursary for more than three years. In other respects the provisions of Ordinance No. 57 apply to the Ardinglass Bursary. Patron, Mr. Geo. F. W. Callander of Ardinglass and Craigforth. Value, £9 10s. (Vacant and to be held in the Faculty of Divinity.)

ARMAGH BURSARIES (*Theology, Law, or Medicine*).—Three in number, founded in 1733 by Hugh Boulter, Archbishop of Armagh, who endowed the College with the annual rent of certain lands in the neighbourhood of Glasgow. By ordinance of the Universities Commission (1858) these three Bursaries were raised from £15 to £25 per annum each (the funds having accumulated through vacancies), and the restrictions as to birthplace were removed.

Further regulations were laid down in Ordinance No. 92 of the

¹ Vacant through lapse of time.

Universities Commission (1889). The Bursaries are now each of the annual value of £48, and are open by competition to students who are presenting themselves for the final examination for the Degree of Master of Arts with Honours in the following rotation: (1) Classics, (2) Mental Philosophy, (3) Mathematics and Natural Philosophy. They are tenable for three years, during which the holders must give regular attendance on the classes of this University, as students of Theology, Law, or Medicine. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this Foundation. In October, 1904, one Bursary, tenable for two years, will be open to competition, the subject of examination being Mental Philosophy, and one, tenable for three years, the subjects being Mathematics and Natural Philosophy.

Bursar—John Gordon (Classics), 1902.

ARTHUR BURSARY OR SCHOLARSHIP (*Medicine*).—Founded in 1892 by Mrs. Arthur of Barshaw. This Bursary is at present of the annual value of £20. It is open to women students in the Medical School at Queen Margaret College. It is to be awarded by the Trustees to the student who shall take the highest place among the Queen Margaret College candidates at the First Professional Examination held in the University before the commencement of the winter session in which an appointment falls to be made, provided always that a candidate may take part of her examination in the March or April preceding. If two students are of equal merit, the Bursary will be divided between them, and if more than two are equal, a special examination may be held to determine who shall be the recipient. The Bursary is tenable for three years, subject to the condition that the Bursar prosecute her medical studies with the approval of the Trustees.

Bursar or Scholar—¹Elizabeth M. M'Vail, 1901.

GLASGOW Ayrshire SOCIETY'S BURSARIES (*Any Faculty*).—Four in number, founded in 1868 and 1879 by the Glasgow Ayrshire Society, and consisting of the free annual proceeds of a sum of £1,501 11s. subscribed by members of the Society, to be devoted to the establishment of bursaries in the University of Glasgow, and invested for that purpose. The bursaries, which are at present £15 per annum each, are tenable for not more than three years, and are open to applicants between the ages of 14 and 24, who are descendants of members of the Society, or natives of Ayrshire, or sons of natives resident in Glasgow, who are in circumstances rendering the aid of a bursary necessary or desirable. Patrons—the Directors and Office-bearers of the Society. Secretary, Mr. Alexander M'Lennan, 92 St. Vincent Street, Glasgow.

Bursar—James Dunbar, 1902; John Smith, 1903; Charles S. Thomson, 1903; John Frew, 1903.

¹ Vacant through lapse of time.

BARBOUR KILBARCHAN BURSARY (*Arts*).—Founded in 1887 by the Executors of Miss Mary Barbour of Plymouth Grove, Manchester, who bequeathed £500 free of legacy duty for the purpose of endowing a scholarship for the Board School of Kilbarchan, Renfrewshire. The bursary is open to students of the first year, and is tenable for three years. Candidates must not exceed the age of eighteen years, must produce a certificate from the Kilbarchan School Board that they have attended three years at the Kilbarchan Village or Town Board School, are of irreproachable character, and have given satisfactory evidence of good natural ability, diligence and proficiency in their studies, and must be examined at the ordinary Bursary Examination. (Vacant.)

BELL BURSARIES.—Mrs. Mary Allan Bell, of Nether Culzean, Maybole, who died on 7th February, 1899, at Glenae, Dumfries, in her Trust Disposition and Settlement of date 21st October, 1895, directed her Trustees, after the death of her husband, to apply the income of the residue of her estate in perpetuity in providing bursaries of £50 each for necessitous deserving students of Medicine, Law, or Theology in this University. Only those who have gone through the Arts curriculum are to be eligible, with a preference, *ceteris paribus*, first to the name Turnbull, and next to the name Macdowall. The Bursaries are to be awarded by competition, the examination being conducted both orally and in writing by two examiners appointed by the Trustees. Each Bursary is to be tenable for three or four years, as the Trustees may decide.

BIGGART MEMORIAL BURSARIES (*Arts*).—Founded in 1876 by Mr. Thomas Biggart of Baidlandhill, Dalry, Ayrshire, in memory of his son, Thomas Biggart, an alumnus of Glasgow University, who died in 1874. The bursaries are open to competition at the annual Bursary and Preliminary Examination to students who are entering on the Arts Course at the University of Glasgow, with a view to the ministry of the United Free Church, and are designed to enable such students more easily to pursue that curriculum and obtain, as far as practicable, the Degree of Master of Arts.

The bursaries are tenable for four years, and the yearly value of each is £25. The Bursary Fund consisted of the sum of £6,000, and the deed of foundation provided that the surplus revenue, if any, may be applied to prolong the tenure of any of the bursars for a fifth year, or to the granting of additional bursaries on the same conditions as are applicable to the others.

Each bursary is payable by equal moieties on the second day of February and at the close of the winter session; and the bursar, on applying to the Principal for a precept for the second moiety, is required in each year to produce, besides the usual certificate from the Professors, a certificate signed by the Chairman and Clerk of the Theological Committee of the United Free Assembly, to the effect

of his being recognised by that Church as an accepted student, pursuing his studies with a view to the ministry therein. (One Vacancy.)

Bursars—John M. Hunter, 1901; William I. H. Marr, 1901; William M'Kelvie, 1902; Robert W. Murchie, 1902; Ian D. Neilson, 1902; Louis C. Phillips, 1903; William A. Murdoch, 1903.

BLACK BURSARIES (*Arts*).—Founded by Mrs. Janet Black, widow of the Rev. William Black, D.D., Minister of the Barony Parish, Glasgow. Mrs. Black died in 1876, and by her Settlement, made provision, *inter alia*, for the institution of two bursaries in Arts, each of which is now of the annual value of £19. The bursaries are open to competition to students entering on their first session in the University, and are awarded to students who, having passed the Arts Preliminary, have gained the highest marks in Mathematics in the Bursary Examination, and have not obtained a bursary in the general competition. The bursars are required to attend the qualifying courses for a degree in Arts.

Bursars—¹James E. Scott, 1900; William G. Waddell, 1902.

BLACK BURSARIES (*Theology*).—Founded by Mrs. Janet Black—who died in 1876—in memory of her husband, William Black, D.D., Minister of the Barony Parish of Glasgow. The bursaries are entrance bursaries, two in number, each of the annual value of £38, tenable for three years. The competition is open to candidates holding a degree in Arts in any Scottish University, or who have passed their examinations in any four subjects taken from at least two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

Bursars—John R. Spence, M.A., 1902; John A. G. Thomson, M.A., 1903.

BLACKQUARRY SCHOOL BURSARY (*Arts*).—Founded in 1876 by the Trustees of the Blackquarry School, Port-Dundas, Glasgow. The Police Board of Glasgow having acquired the school compulsorily under "The Glasgow Police Acts," the Trustees resolved to apply the proceeds, after payment of all claims upon the institution, in founding a Bursary in the University of Glasgow. The Bursary is open to competition to Students in the Faculty of Arts on their first entering the University, under the same regulations as those of the competition Bursaries in the University, and is tenable for four years, subject to the condition that the Bursar shall attend the qualifying course for the Degree of M.A. Value, the annual income of a sum of £420 (about £12).

Bursar—John F. Tinto, 1901.

¹ Vacant through lapse of time.

BOYD AND SANDERS BURSARY (*Theology*).—In 1635, Mr. Zachary Boyd founded three Bursaries for students in Divinity, tenable for two or four years, each of the value of £5 10s. per annum. The appointment to one of these was vested in the Merchants' House of Glasgow; and the patrons of the other two were the members of the City Council. Preference to burgesses' sons, particularly of the name of Boyd.

The Bursary, value £5 10s., in the gift of the Merchants' House of Glasgow, and the Sanders Bursary, value £8 6s. 8d., founded in 1728 by Mr. Robert Sanders of Auldhouse, also in the gift of the Merchants' House, were, by an order obtained under the authority of the Endowed Institutions Commission in 1880, conjoined into one Bursary of £13 16s. 8d. per annum, tenable for not more than three years by a student attending the ordinary curriculum in the Faculty of Theology at the University of Glasgow. The preference, *ceteris paribus*, to the names Boyd, Sanders, Corbet, Colquhoun, and Wardrop, was cancelled by Ordinance No. 57 of the Universities Commission (1889). When a vacancy occurs applications are to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September. (Vacant.)

BOYD AND WILSON BURSARY (*Theology*).—By ordinance of the Universities Commissioners of date 17th May, 1862, the two Boyd Bursaries in the gift of the Magistrates and Town Council of Glasgow (see above) were conjoined into one, tenable for three years, the Bursar to be M.A. By an ordinance of the same date the two Bursaries, value £6 13s. 4d. per annum each, which were founded by Mr. Michael Wilson in 1650, and placed under the same patronage, were also conjoined into one, tenable for three years, the holder to be M.A. in regular attendance at the University as a student of Theology. Restrictions as to kindred, etc., were in both cases abolished.

This Boyd Bursary and this Wilson Bursary were, by Ordinance No. 78 of the Universities Commission (1889), conjoined into one Bursary, called the Boyd and Wilson Bursary, value £24 6s. 8d. per annum. The holder must be a Master of Arts of a Scottish University. The Bursary is tenable for three years, provided that the Bursar shall, during that period, give regular attendance as a student of Theology in Glasgow University. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

Bursar—John M. Hamilton, M.A., 1902.

BRAND BURSARIES (*Arts*).—Mr. Robert Brand, son of the late Mr. Robert Brand, coalmaster, Wishaw, by his Trust Disposition and Settlement, dated 28th June, 1873, directed his Trustees to pay to the Senatus of the University of Glasgow the sum of £2,000,

the income of said sum to be applied in payment of three Bursaries in Arts for the behoof of students in the University who shall be studying with a view to the ministry of the United Free Church. Mr. Brand died on 3rd July, 1873, but, in consequence of litigation, it was not till January, 1875, that the bequest, amounting, with interest, to the sum of £2,121 7s. 5d., was paid by the Trustees to the Senate. The Bursaries, which are tenable for four years, are of the annual value of about £27 each, and are awarded by public competition to students entering their first or second session in the Faculty of Arts; the Bursars to graduate as M.A. at the end of their course.

Bursars—Robert Inglis, 1901; William King, 1902; Joseph W. Buchanan, 1903.

BRISBANE BURSARY (*Medicine*).—Founded by Miss Christian Brisbane in 1777, in fulfilment of the intentions of her brother, Dr. John Brisbane of Balbegno. Their father, Dr. Thomas Brisbane, was the first Professor of Anatomy in this University.

It is tenable by a student of Medicine for four years, and the salary is about £40 per annum. The family of Brisbane and the University present alternately. Applications should be sent to the Clerk of Senate on or before 1st November, 1904. The applicant must be under twenty-two years of age, and must have the Degree of M.A.

The preference formerly given to the kin of the founder was cancelled by Ordinance No. 57 of the Universities Commission (1889).

Bursar—¹ Robert B. Carslaw, M.A., 1900.

BROWN BURSARY.—See Crawford and Brown, p. 293.

BROWN OR ETTLES BURSARIES (*Theology*).—Two in number, founded in 1867 by Miss Ettles of Inverness, in memory of her brother-in-law, Dr. E. Brown, an alumnus of this University. The Bursaries consist of the annual interest and proceeds of a sum of £1,000, and are open to competition to first year's students of Divinity who have passed all the examinations required for the ordinary Degree of M.A.; with a preference, *ceteris paribus*, to such as can speak Gaelic. The Bursaries are now each of the annual value of £28, and are tenable for three years.

Bursars—John M. Hamilton, M.A., 1902; James Bain, M.A., 1902.

EBENEZER BROWN BURSARY (*Arts*).—Founded in 1884 under the Trust Disposition and Settlement of Mr. Ebenezer Brown, export bottler, West Campbell Street, Glasgow. Mr. Brown, who died on 31st July, 1883, bequeathed to the Senate the sum of £1,000, free of legacy duty, for the purpose of founding and maintaining a bursary in the Faculty of Arts, to be granted to the student who shall stand highest in a competitive examination on such subject or subjects in

¹ Vacant through lapse of time.

Arts as the Senate may prescribe. The Senate have full power to vary such subject or subjects from year to year, and to lay down such regulations regarding the bursary as they may see fit. The bursary is open to competition to all students entering on their first or second year of attendance, provided that no student in his second year shall be eligible who on entering upon his first year of attendance passed the whole Preliminary Examination. It is tenable for three years. Present value, £38 per annum.

Bursar—¹Thomas M. McRobert, 1901.

BROWNE (AYRSHIRE) BURSARIES (*Arts*).—Two in number, tenable for four years, and each of the annual value of about £22, founded in 1871 by Mr. Hugh Browne, residing at Darvel, in the county of Ayr, who for this purpose, and in memory of his brother, the late Dr. Alexander Browne of Buenos Ayres, mortified to the University of Glasgow the sum of £1,000. The bursaries are awarded by competition. Candidates must be natives of the county of Ayr, or must have been educated for not less than four years in a school within the said county, and must be entering on their first session at the University. (One vacancy).

Bursar—David T. Leggat, 1902.

BROWN-PATON BURSARIES (*Arts*).—Founded in 1891 by Mr. Andrew Brown-Paton, Liverpool, in memory of his father, mother, and three sisters. The bursaries are two in number, and are tenable for three years. They are open for competition to students of the first year, with a preference to natives of the parishes of Loudon or Galston in Ayrshire. Should no candidate from either of these parishes come up to the standard of the Entrance Examination then held in Arts, the bursaries are open to candidates from any part of Ayrshire. Failing qualified candidates from Ayrshire, the bursaries are open to all students of the first year. In case of a vacancy, otherwise than by lapse of time, a student of the same standing is appointed by the Senate by examination or otherwise. Each bursar receives one half of the free proceeds of the capital sum, £1,000, paid over to the University Court by the founder.

Bursars—Alexander T. R. Yuille, 1903; John Wilson, 1903.

BUCHANAN BURSARIES (*Arts*).—Founded by the late Robert Buchanan, LL.D., Ardillayne, Dunoon, formerly Professor of Logic and Rhetoric in the University of Glasgow, by Codicils to his Will, dated 26th December, 1871, and 26th March, 1872, in which, as a "token or expression of his gratitude and respect to the University of Glasgow, with which, as a student, or Professor, or member of the University Court, he had been connected for the space of fifty years," he bequeathed the sum of £1,000 for the purpose of founding a Bursary or Bursaries for students in the Faculty of Arts, on the con-

¹ Vacant through lapse of time.

ditions that may appear to the Senatus best for the interests of the University. The Senate resolved to apply the annual proceeds to the support of two Bursars in Arts, each to hold his Bursary for three years, subject to the usual condition of attending two of the classes of the curriculum in each session; the Bursars to be appointed by competitive examination among students of either sex of the first year. The Bursaries are awarded to competitors who, having passed the Arts Preliminary, have gained the highest marks in Dynamics in the Bursary examination, and have not obtained a bursary of greater value in the general competition. Present value, £13 to each Bursar.

Bursars—¹ Neil Conley, 1901; James C. Burton, 1902.

BUCHANAN (BELLFIELD) BURSARIES (*Arts and Theology*).—Founded in 1875, in accordance with the Trust Disposition and Deed of Settlement of the late Misses Margaret Jane and Elizabeth Buchanan of Bellfield, Glasgow. The Bursaries are two in number, and consist of the yearly proceeds of a sum of £4,200, vested in Reduced 3 per cent. Annuities. Open to matriculated students who may be prosecuting their studies at the University of Glasgow, with a view to their becoming licentiates and clergymen of the Established Church of Scotland. The Patrons are the Principal and such of the Professors as hold their appointments from the University Court. The Bursaries are tenable during the whole curriculum "or such portion thereof as to the said Principal and Professors may seem proper." The Bursars are appointed by competitive examination among students of the first and second years in Arts. Present value, £47 per annum to each Bursar.

Bursars—¹ James G. MacDonald, 1897; Alexander B. Harper, 1903.

BUCHANAN SOCIETY BURSARIES (*Arts or Science or Medicine*).—These bursaries have in the meantime been suspended. The Directors have, however, reserved power to award to Arts, Science, and Medical Students Bursaries tenable at Scottish Universities, the amounts, conditions, and periods of tenure being in the discretion of the Directors.

Bursars—John Macmillan (Medical, 5 years), 1900; Murdo Buchanan (Medical, 5 years), 1900; Andrew Buchanan (Science, 4 years), 1901; Donald Buchanan (Medical, 5 years), 1903; James M. Macmillan (Medical, 5 years), 1903; John H. Buchanau (Arts, 3 years), 1903.

CELTIC SOCIETY'S CAMPBELL BURSARY (*Any Faculty*).—Founded in 1869 by the Glasgow Celtic Society. Value, at least £5. Tenable

¹ Vacant through lapse of time.

for one or more years by a native, or a son of a native, of the Highlands of Scotland, not under 14 nor above 20 years of age, whose circumstances are such as to render aid important. A preference, *ceteris paribus*, to Gaelic-speaking students. Additional Bursaries not exceeding £5 are also granted by the Society, when its funds permit, to Gaelic-speaking students. Applications to be made to the Honorary Secretary, Mr. T. A. H. Anderson, 170 Hope Street, Glasgow, on or before 1st October in each year. Application forms may be obtained from Mr. Anderson.

Bursar—John MacPherson, 1903.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS (*Arts, etc.*).—(See under "Scholarships.")

JOHN CLARK (MILE-END) BURSARIES (*Arts*).—Founded in 1868, in accordance with the Trust Disposition and Deed of Settlement of the deceased Mr. John Clark, junior, of the firm of John Clark, junior, & Co., thread manufacturers, Mile-End, Glasgow. By a Deed of Constitution of date 1st August, 1866, the "Clark Bursary Fund" is placed under the management of twelve trustees. The Bursaries are to be at least two in number, of the annual value of £30, open for competition to all Protestant students of good moral character, sons or daughters of Protestant parents, entering on their first session in the Faculty of Arts (a preference, *ceteris paribus*, given to orphans), and are tenable for four years, subject to the condition that the Bursars proceed through the curriculum of Arts in Glasgow University. On 29th October, 1897, the Trustees resolved that it should not be competent for any one appointed after that date to a John Clark (Mile-End) Bursary to hold any other Bursary or Scholarship concurrently with it, except with the consent of the Trustees. The competition is to be in writing, and the trustees are to appoint the subjects of examination. The Bursary fund consists of the residue of the Testator's estate, said residue amounting to upwards of £35,000. Six Bursaries on this foundation will be open to competition in October, 1904; and will be awarded, four for general excellence, one for special excellence in French, and one for special excellence in German. Awards for the Bursaries for French and German are made only to competitors who have passed the Arts Preliminary and have not obtained any Bursary for general excellence.

Bursars —¹ Robert N. Cross, 1900; ¹ William B. Donald, 1900; ¹ Thomas Duncan, 1900; ¹ Andrew Hutchison, 1900; ¹ Elias H. Jones, 1900; ¹ Thomas D. K. Murray, 1900; Albert F. L. Brayne, 1901; John R. Brown, 1901; Robert Browning, 1901; James K. Dunlop,

¹ Vacant through lapse of time.

1901; Gilbert W. Elliott, 1901; Hugh Smith, 1901; James C. M. Fairlie, 1902; Alexander C. Grant, 1902; Thomas Miller, 1902; John M'Whan, 1902; William M. Ogilvy, 1902; Leonard J. Russell, 1902; George Anderson, 1903; John W. Tait, 1903; Oswald J. Gardner, 1903; Charles E. Duff, 1903; Annie M. Macphail (German), 1903; Margaret Roughhead (French), 1903.

COWAN BURSARIES (AYR ACADEMY) (*Arts*).—These Bursaries were founded by the late David Cowan, Esq., of Auchendrane, who bequeathed to the Directors of the Ayr Academy the sum of £2,000, to be invested and held by them in trust, and the annual income thereof applied as Bursaries, to promote the education of two students, one at each of the Universities of Edinburgh and Glasgow, who should have received their previous education, or part of it, at Ayr Academy. These Bursaries are now administered by the "Ayr Educational Trust." Under Scheme 328, Section 26, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 8th February, 1890, the Governors are instructed to apply an annual sum of not less than £80 in establishing Bursaries for University education, to be called the Cowan Bursaries, each of the yearly value of not less than £20 nor more than £30. These Bursaries are awarded by competitive examination among those who have been pupils in the Ayr Academy for at least two years before the date of examination, and only those are eligible for appointment who pass the Preliminary Examination occurring first after the termination of their Academy course; unless it can be shown to the satisfaction of the Governors that any student was unavoidably prevented by illness or other necessary cause from appearing at the Examination first occurring, in which case the Governors reserve to themselves the power to allow such students, should they so decide, to compete at the next following examination. The Governors have resolved to award them alternately to students of Glasgow and Edinburgh Universities. The Bursaries are tenable for three years, the total value of each being £80, payable by instalments of £30 per annum for the first two years, and £20 for the third year. No student who has gained a Cowan Bursary shall hold along with it any other Bursary or Scholarship which either singly or in combination exceeds the amount of £10 per annum, without the consent of the Governors. On a vacancy, intending candidates must send in their names and addresses to the clerk and treasurer, Mr. John Douglas, Wellington Chambers, Ayr, before the first day of September; and the Senate of the University of Glasgow undertakes the examination of candidates who offer themselves for the Bursary to be held at this University. One Bursary of £30 for the first, and £20 for the second year, will be open to competition for session 1904-5.

CRAIG BURSARY (*Arts*).—Founded by Mr. John Craig, merchant in Glasgow, in 1697, for students in Philosophy. Tenable for four years. The preference to kindred of Founder, and students of the name of Craig, was cancelled by Ordinance No. 57 of the Universities Commission (1889). Value, £8 6s. 8d. per annum, increased by the Patrons in 1880 to £25. Appointment by the Merchants' House. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September of the year in which a vacancy occurs.

Bursar—Adam W. Burnet, 1902.

ARCHIBALD CRAIG BURSARY (*Arts*).—The Rev. Archibald Craig, some time minister of the Free Church at Dalton, thereafter residing at Eaglesham, who died on 10th March, 1873, by his Will, dated 4th March, 1873, bequeathed a sum which, with accretions, amounted in 1884 to £250, to be devoted to the foundation of a Bursary in the University of Glasgow. The Trustees of the Bursary Fund are—the Minister for the time being of the Parish of Eaglesham, the Minister for the time being of the United Presbyterian Church, Newton-Mearns, and certain other gentlemen. The Bursary was founded in 1884. It is open to competition, at the annual Bursary Examination, to all students entering on the first session of attendance at the University, who are natives of the parishes of Eaglesham or Mearns, or who for two consecutive years have attended school in either of said parishes; is awarded by the Senate in accordance with the result of that examination; and is tenable for the first two years of such student's attendance at the University. The Bursary is payable at the close of the winter session. Should the Bursary be in abeyance during any session or sessions, from failure of students falling under the above description, the accumulation may, in the discretion of the trustees, be applied to the increase of the Bursary in any subsequent session or sessions, or may be added to the capital fund. (Vacant.)

CRAWFURD AND BROWN BURSARY (*Arts*).—The Crawford or Bishop's Bursary was founded by Captain Thomas Crawford of Jordanhill in 1576, and was appropriated to a student in Languages. It was tenable for four years, the value being a chalders of meal. The Patrons were the Principal and the Professors of the University. The foundation was remodelled by ordinance of the Universities Commission, dated 7th June, 1862. The Brown Bursary was founded in 1697 by Colonel Brown of Maryland. It was tenable for four years. The annual value was £5, increased in 1880 to £6 13s. 4d. by an addition from the Students' Bursary Fund. This Bursary, being also in the patronage of the Principal and Professors, was combined with the Crawford Bursary by Ordinance No. 81 of the Universities Commission (1889), the joint-bursary to be called

the Crawford and Brown Bursary. The preference as to kindred attaching to the Brown Bursary was abolished. The Crawford and Brown Bursary is tenable for four years, the annual value being £19 13s. 4d. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure, if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary.

Bursar—¹Theodore D. Dunn, 1900.

DONALD CUTHBERTSON BURSARY (*Science*).—Founded in 1900 by Sir John Neilson Cuthbertson, LL.D., and Thomas William Cuthbertson, M.A., Trustees of Donald Cuthbertson, LL.B., Accountant in Glasgow, who died on 8th December, 1864. The Bursary Fund amounts to £1,000, being the accumulated revenue and principal of £500 out of the residue of the Testator's estate. The Deed of Foundation provides that the right of nominating the bursar, of determining what classes in the University he shall attend, and of fixing the period of tenure, shall belong to the Trustees. Their subsisting resolution is that the Bursary shall be awarded to a student entering on his course with a view to graduate in Pure Science, account being taken of the proficiency he has shown in passing the Science Preliminary Examination, that it shall be tenable for three years, and that the Bursar shall during that period attend Science classes in the University. The Trustees reserve to themselves power to alter this resolution at any future time, and should they ultimately resign the management of the Trust into the hands of the University Court, then the Bursary shall be administered under the regulations fixed and adopted at the time by the Trustees. The present annual value is £32.

Bursar—Ralph M. F. Picken, 1902.

DAVIDSON BURSARIES (*One in Arts and one in Medicine*).—Two in number, founded in 1881, in terms of the Trust Disposition and Settlement of Mrs. Eliza Davidson, who bequeathed £2,000 for that purpose, the one bursary being in memory of her husband, John Davidson, surgeon, Newmilns, and the other in memory of her son, Francis John Ferguson Davidson. A preference is given, *ceteris paribus*, to the Founder's relatives, and to young men natives of the parishes of Muirkirk, Dalserf, Lesmahagow, and Loudon. One of the Bursaries is open to competition to students of the first or second year in the Faculty of Arts, and is tenable for three years, but the second moiety of the third year's Bursary is not payable until the bursar shall have passed the examinations in four subjects taken

¹ Vacant through lapse of time.

out of at least two Departments for the Degree in Arts. The other Bursary, also tenable for three years, is awarded to the medical student who stands first in the First Professional Examination, provided that his attendance at the classes has not exceeded the requirements of the Ordinance. The present annual value of each is £32.

Bursar in Arts—James Carmichael, 1903.

Bursar in Medicine—¹James H. Baird, B.A., 1901.

DENNY BURSARIES (*Any Faculty*).—Four in number, founded in 1875, by the late Peter Denny, LL.D., engineer and shipbuilder, Dumbarton. Value, not less than £30 per annum each, and tenable for four years. Open for competition to all students entering the University who are not under fourteen years of age, and who have been pupils in regular attendance at the Dumbarton Burgh Academy for at least two years, one of which must be immediately preceding the date of such entry. One of the Bursaries will be competed for at the beginning of next session. The examination will be in the same subjects and at the same time as the examination for the other competition Bursaries. The Trustees are Mr. Peter Denny and Mr. Leslie Denny, nominated in 1896 by the Sheriff of Dumfriesshire, the Principal and Professors, and one of the four Assessors of the General Council in the University Court appointed by the four Assessors, or a majority of them, in accordance with the provisions of Ordinance No. 91 of the Universities Commission (1889).

Bursars—¹Henry J. Milligan, 1900; Alexander Laurance, 1901; David B. Smith, 1902; Robert W. Roxburgh, 1903.

GLASGOW DUMFRIESSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Two in number, the one founded in 1874 and the other in 1876. They are in value £15 per annum each, are tenable for four years, and consist of the annual proceeds of a sum subscribed by members of the Glasgow Dumfriesshire Society and invested for the establishment of Bursaries in Glasgow University. The Bursaries are open to first and second year's students, between the ages of 14 and 27, who are either descendants of members of the Glasgow Dumfriesshire Society, or natives of Dumfriesshire, or sons of natives resident in Glasgow, whose circumstances render the aid of a Bursary necessary or desirable. Application to be made to the Secretary, Mr. Francis Stoddart, 212 St. Vincent Street, Glasgow, not later than 1st September of the year in which a vacancy occurs. There are no bursaries at present.

¹ Vacant through lapse of time.

DUNCAN'S BUTE BURSARIES (*Arts*).—Founded in 1875 for the benefit of natives of the island of Bute, by Mr. James Duncan of Valparaiso, and afterwards of Rothesay, who by his Will of date 19th October, 1874, bequeathed £2,000 for this purpose. The Trustees and Patrons are the Principal, the Professor of Mathematics, the Professor of Natural Philosophy, and the Provost of Rothesay, all for the time being. Candidates must be natives of the island of Bute, and must be entering on their first or second session in the Faculty of Arts at the University. The Bursaries are two in number, tenable for four years; but the Patrons may in each case continue the Bursary for a fifth year to assist a student who may have been assiduous in his Academical studies, in private study, or in Continental travel, or other pursuits conducive to relaxation, combined with enlargement of his experience of men and things. The examination is in the same subjects and at the same time as the examination for the other competition Bursaries. There is a preference, *ceteris paribus*, to the name of Duncan, in such degree as the Patrons shall determine; in other cases of equality the Bursary may be divided. Present annual value, £35 to each Bursar. On 28th October, 1897, the Patrons made a by-law declaring that it should not be competent for any one appointed after that date to a Duncan's Bute Bursary to hold any other Bursary or Scholarship concurrently with it.

Bursars—Renwick Leitch, 1901; Campbell L. Miller, 1901.

DUNDONALD BURSARIES (*Eight in Arts and Six in Theology*).—In 1672, William, Earl of Dundonald, founded seven Bursaries—four in Philosophy and three in Divinity.

In 1858 the surplus funds of this foundation having greatly accumulated, an Act of Parliament was obtained, authorizing an increase in the number of Bursars, but providing that the total number of Bursars in Philosophy shall, at all times, bear to the number of Bursars in Divinity the proportion of four to three, as nearly as may be. The Bursaries are now fourteen in number—eight in Philosophy and six in Divinity.

The Bursaries were further regulated by Ordinance No. 94 of the Universities Commission (1889). The Bursaries in Arts are tenable for four years, but if a bursar graduate at the end of three years, he shall only retain his Bursary for the fourth year of tenure, if he engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The Bursaries in Divinity are tenable for three years, and no longer. A student cannot be appointed to a Dundonald Bursary in Divinity unless he has passed all the examinations required for graduation in Arts. In other respects the provisions of Ordinance No. 57 apply to all the Bursaries on this Foundation. The Bursars in Arts receive £40 each per annum, and those in Divinity £41 2s. 6d.

The patronage lies with the Trustees of the late Duke of Hamilton, and is exercised by their Commissioner, George Dalziel, Esq., 66 Queen Street, Edinburgh, to whom applications should be sent on or before the first of September. One appointment in Arts and one in Divinity will be made for next session.

Bursars in Philosophy—¹Donald Macphie, 1900; ¹John W. Scott, 1900; Robert Jack, 1901; James A. Stephen, 1901; Douglas H. Wilson, 1902; Joseph Davidson, 1902; George Blair, 1903.

Bursars in Divinity—¹William Lindsay, M.A., 1901; ¹George Muir, M.A., 1901; William J. Jamieson, M.A., 1902; Frank W. Saunders, M.A., 1902; William R. Wiseman, M.A., 1903.

ELDER BURSARIES.—With a view to the encouragement of merit shown by the sons of working men, Mrs. Elder has intimated her intention of giving annually to the most deserving student of the Science and Art Classes in connection with the Young Men's Christian Association, Govan Section, a Bursary of £25 per annum, to which will be added by the Department of Science and Art an equal sum, making £50 in all. The Bursaries will be tenable for two years.

Candidates must have taken the undermentioned classes in the Govan Science and Art Section:—Mathematics (2nd stage); Theoretical Mechanics (Elementary); Steam and the Steam Engine, or Naval Architecture (advanced stage).

The competition by which the Bursar is to be selected will be in the above subjects, and will be conducted by the Department of Science and Art at the examination in May.

Candidates must be employed in workshops on the Govan side of the Clyde from Glasgow to and including Renfrew, or must reside in the district. A Bursar will be required to enrol in and attend the following classes at the University during the first year of his attendance:—(1) Natural Philosophy; (2) Chemistry (lectures); (3) Mathematics; (4) Naval Architecture and Marine Engineering. During the second year of attendance: (1) Mathematics; (2) Civil Engineering and Mechanics (lectures); (3) Naval Architecture and Marine Engineering. These Bursaries are to be continued during Mrs. Elder's pleasure.

JAMES EWING ENTRANCE BURSARIES (*Arts*).—Four in number, founded in 1879 by the Merchants' House of Glasgow in accordance with the Deed of Endowment of the late Mr. James Ewing of Strathleven. The Directors resolved to apply annually £80 of the income of his legacy of £10,000 for educating, training, and settling in business the sons of Glasgow merchants in entrance Bursaries of £20 each. The Bursaries are tenable for four years by students giving regular attendance on classes in the Faculty of Arts. Open to first year's students. The appointments to the Bursaries will be made

¹ Vacant through lapse of time.

in accordance with the annual Bursary competition at the commencement of the session ; candidates to be qualified as above. Applications to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September, in each year. (One vacancy.)

Bursars—¹John C. Middleton, 1900 ; Campbell Stephen, 1901 ; Charles McNeil, 1902 ; George Harvie, 1903.

JAMES FERGUSON BURSARIES (*Theology, Law, Medicine, or Department of Engineering Science*).—Two in number, founded in 1877, under provision of the Trust Disposition and Settlement of the late James Ferguson, Esq., of Wiston, and consisting of the annual proceeds of a sum of £3,600. The Bursaries are now each of the annual value of £95, and are tenable in the University of Glasgow for two years in any of the three Faculties of Divinity, Law, or Medicine, or in the Department of Engineering Science. The Bursaries are awarded for special proficiency in Arts studies, according to the following rotation, viz. :—In November, 1878, and thereafter triennially, in Mental Philosophy, together with English Literature ; in November, 1879, and thereafter triennially, in Mathematics and Natural Philosophy ; in November, 1880, and thereafter triennially, in Classical Literature. The Examination is the same as that for honours in the Groups of Classics, Mental Philosophy, and Mathematics and Natural Philosophy respectively (with the addition in the case of the Group of Mental Philosophy of a paper on English Literature), at the annual Examination for Degrees in October. Candidates must have completed the course of attendance required for admission to examination in the corresponding Group for the Degree of M.A. with Honours. Each Bursar must pursue the course of study for such Degree in Divinity, Law, Medicine, or Engineering Science, as he may, with approval of the Senate, select. In the event of a successful candidate not having completed attendance on the Arts classes necessary to qualify for the Degree of M.A., he shall be at liberty, without forfeiting his right to the Bursary, to continue his studies in Arts for two years, in order that he may complete his qualifications for graduation ; but no part of the Bursary shall become payable until he has selected and entered upon a course of study in one of the three Faculties above mentioned, viz. :—Divinity, Law, or Medicine, or in the Department of Engineering Science. While the Bursary is tenable for two years of such course, the Bursar must continue his attendance on classes beyond the two years, if this be necessary for graduation or for receiving the Certificate of Proficiency in Engineering Science. The Bursar shall not receive payment of any half-yearly Bursar without such evidence as the Senate may require that he is faithfully pursuing the selected course, and shall not receive payment of the fourth half-yearly Bursar until he has graduated or

¹ Vacant through lapse of time.

received the Certificate of Proficiency in Engineering. Unless a candidate comes up to at least the standard of Second Class Honours, the Senate shall not be bound to award the Bursary. There is a preference, *ceteris paribus*, to young men natives of the parishes of Lesmahagow or Muirkirk, or the province of Pictou, Nova Scotia, and also to young men of the name of Ferguson or Weir, or to descendants and relatives of the founder.

Candidates for the Bursary to be competed for in 1904 will be examined in Classics along with the examinations on these subjects for the Degree of M.A. with Honours. Names to be given in to the Assistant Clerk (Matriculation Office) not later than 14th September.

Bursar—Eric J. Roberts (Mental Philosophy), 1902; Robert Hamilton (Math. and Nat. Phil.), 1903.

FORFAR BURSARIES (*Arts*).—Founded by the Countess of Forfar in 1737. The foundation was remodelled by the Universities Commission (1858), by Ordinance of 31st May, 1862, and further regulated by Ordinance No. 79 of the Universities Commission (1889) of date 15th February, 1895. There are now five Forfar Bursaries in the gift of the Senate: the holder of each to receive £36, if the funds allow. These Bursaries are open for competition to all students entering the first or second session of attendance at the University. They are tenable for four years, subject to the condition that the bursar shall proceed through the curriculum in Arts, and shall pass the examinations for the Degree of M.A. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 of the Universities Commission (1889) apply to the Forfar Bursaries. The Senate, acting under Section XIII. of the said Ordinance, have resolved to award four of these bursaries in respect of exceptional distinction in Classics, viz., one each year to a student of the first year who, having passed the Arts Preliminary, has gained the highest marks in Latin and Greek in the Bursary examination and has not obtained a bursary for general excellence.

Bursars—¹Robert Harvie, 1900; ¹Dugald F. Percy, 1900; Thomas D. K. Murray, 1901; John C. Rollo, 1902; Mungo T. Archibald (Classics), 1903.

FORREST BURSARIES (*Any Faculty*).—Founded by Mr. William Forrest of Easter Meadowhead, Drumgelloch, and Meadowsides, by Deed of Mortification of date 6th March, 1858. The Trust was reconstituted in 1886, under a Scheme of the Educational Endowments Commission. The Bursaries are five in number, each of the annual

¹ Vacant through lapse of time.

value of £22, and tenable at the University of Glasgow for such number of years, not exceeding five, as the Governors may determine. The Bursaries are awarded by competitive examination among young men who require aid in obtaining a University education, and who have been pupils in public or State-aided schools within the parishes of New Monkland, Slamannan, and Shotts, or who are natives of said parishes. Bursars cannot hold another Bursary, must prosecute a course for some degree, and attend at least two classes each session.

Governors—The Provost of Airdrie, the ministers of the parishes of New Monkland, Airdrie, and Clarkston, one representative from each of the School Boards of Airdrie and Clarkston, and one from the School Boards of Slamannan and Shotts alternately, and one appointed by the Sheriff of Lanarkshire. Secretary, Mr. G. B. Motherwell, Town Clerk, Airdrie. (Two vacancies.)

Bursars—Joseph Cupples, 1900; Harry A. Kellow, 1900; Humphrey Clark, 1902; John Drummond, 1903; Alexander J. D. McDonald, 1903.

FORRESTER BURSARY (*Arts*).—Founded in 1901 by the Trustees of the late James Forrester, merchant in Airdrie, in accordance with the instructions contained in his Trust Disposition and Settlement. The Trustees are the patrons. The Bursary, which is of the annual value of £22 to £25, and tenable for three years, is open to competitors of either sex, born in the parish of Dunblane or Lecropt, and requiring assistance to enter the University. It will be awarded after public examination of the candidates at the Bursary Competition in connection with the Faculty of Arts in the University of Glasgow. It shall not be held by any Bursar along with any other Bursary or Scholarship whatsoever. If two candidates are found to be equal in merit, the Trustees may divide the Bursary between them. When no candidate of sufficient merit makes application, the Bursary will lapse until the following year. Whenever the Bursary remains vacant for a year or years, the income accumulated will go to increase the Benefit of the first successful applicant, the accumulated interest being spread over the three years of tenure. When a vacancy occurs, applications should be lodged with Mr. Alexander B. Barty, Writer, Dunblane, on or before 1st September. (Vacant).

FOUNDATION BURSARIES (*Arts*).—These Bursaries were founded by James VI., in 1577, for students in Languages and Philosophy, and were originally four in number. By ordinance of the Universities Commission (1858) of date 7th June, 1862, these Bursaries were remodelled, and were further regulated by Ordinance No. 84 of the Universities Commission (1889) of date 15th February, 1895. Under the new scheme there are two Foundation Bursaries, the holder of each to receive £20 per annum. They are open for com-

petition to all students entering the first session of attendance at the University, and are tenable for four years. The class attendance of the Foundation bursars is regulated by Ordinance No. 57, Sec. III. The Senate, acting under Section XIII. of the said Ordinance, have resolved to award these bursaries in respect of exceptional distinction in English, viz., one bursary in alternate years to a student of the first year who, having passed the Arts Preliminary, has gained the highest marks in English in the Bursary examination and has not obtained a bursary for general excellence. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science.

Bursars—¹Annie M. MacGregor, 1900; Alexander Hutchison, 1901.

FRANCO-SCOTTISH SOCIETY'S TRAVELLING BURSARIES (*Arts*).—The Scottish Branch of the Society offers for 1905 two Travelling Bursaries of £30 each for competition among Scottish students. The examination will be held simultaneously in the four Scottish Universities probably during March, 1905. Candidates must send their applications, names, addresses, and certificates of attendance in at least one of the University French Classes, during one or both of the sessions 1903-4 and 1904-5 (accompanied by a stamped and addressed envelope), to A. A. Gordon, Esq., C.A., Hon. Sec., 128a George Street, Edinburgh, when requested. Candidates from the Training Colleges, if specially recommended by the respective Rectors, will also be admitted to the examination, although they have not attended University Classes. The Bursars are required to study French in France for at least three months, to the satisfaction of the Society.

The competition is open to those candidates only who hold no other Scholarship, Bursary, or Grant for the purpose of enabling them to study French. For fuller details see the newspaper advertisements during January and March, 1905.

FULLARTON OF OVERTON BURSARIES (*Arts*).—By Deed of Mortification and Constitution dated 22nd December, 1877, the Executors of the late John Fullarton, Esq., of Overton, West Kilbride, Ayrshire, in pursuance of his Trust Disposition and Settlement and Codicils, assigned to the Principal and Professors of Glasgow University, as Patrons, the residue of his estate, amounting to £2,604 17s. 7d., for the purpose of founding five Bursaries, more or less, each of the annual value of at least £10, but not exceeding £30. The present annual value to each bursar is £22. The Bursaries are tenable for two years by students in Arts under 25 years of age,

¹ Vacant through lapse of time.

belonging to or resident in the district of Cunninghame, in Ayrshire, children of parents whose means and social position are not above those of tradesmen, small farmers, or shopkeepers, or others who may be struggling to secure their better education, and are by themselves, or with such assistance as they may be able to get from their parents or relations, unable to provide for the expenses of a University education. The Bursaries are awarded by competitive examination in Latin, Elementary Mathematics, and English; but no candidate is eligible who has attended any University for more than one session. A Bursary may be divided between two candidates of equal or nearly equal merit, but as between a candidate who has not previously attended any University and a candidate who has so attended, the former is preferred. A Bursar may attend each session one or more of the classes in the Faculty of Arts, the selection of classes being left to his own option. Any accumulations through vacancies are added to the capital sum. Candidates are required to produce evidence of age.

Bursars—¹James M. Barclay, 1902; ¹Alexander F. MacRobert, 1902; ¹Alexander Hynd, 1902; James Hendry, 1903; ²James Liggat, 1903.

WILLIAM GARDINER BURSARIES (*Arts, Medicine*). — William Gardiner, M.D., of Ashton-under-Lyne, by his Settlement, dated 27th September, 1897, directed his Trustees to pay over to the University Court the sum of £1000, free of legacy duty, for the purpose of founding one or more Scholarships, Bursarships, or Exhibitions, to be devoted to such objects and in such manner as the Court should think fit, preference being given to students of Chemistry, Physiology, and Physics, French and German, and, so far as practicable, to sons of medical men, lawyers, and teachers.

The following regulations were approved by the University Court on 4th October, 1900:—

1. The Bursaries shall be two in number, equal in value, and each tenable for two years.

2. One Bursary shall belong to the Faculty of Medicine, and shall be awarded after the Autumn Professional Examinations in Medicine to the candidate who in the year in which the bursary is open has passed in Physiology of the second professional examination, and whose aggregate of marks in that subject and in Chemistry and Physics of the first professional examination, is the highest.

3. The other Bursary shall belong to the Faculty of Arts, and shall be awarded to the student who obtains the highest marks in French and German as subjects of the General Bursary examination in the year in which the Bursary is open, provided that it shall be in the power of the Senate to award the bursary for decided

¹ Vacant through lapse of time.

² Appointed subject to rule embodied in Ord. No. 57, Section xv.

proficiency shown by a candidate in one of the said languages. The holder of this bursary must attend the French class or the German class in the University, and pass the examination in one or other of these subjects required for graduation in Arts. The second moiety of the second year's Bursar shall not be paid until the Bursar shall have passed this examination.

4. Either of the William Gardiner Bursaries may be held along with any other Bursary in the University, if the regulations of that other Bursary permit.

5. The Bursaries shall be open to both men and women, effect being given, *ceteris paribus*, to the preference expressed in the Will of Dr. Gardiner for sons of medical men, lawyers, and teachers.

The present annual value of each is £14.

Bursars—Hugh Higgins (Arts), 1903; George A. Allan (Med.), 1903.

GARTMORE BURSARY (*Arts*).—In accordance with the directions of the Founder of the Gartmore Medal (see p. 380), the Universities Commission (1889), by Ordinance No. 98, founded this Bursary, a sufficient capital having accumulated from the surpluses of the Foundation. It is open by competition to all students entering on their first year of attendance on a course for graduation in Arts, and is tenable for three years. Value, £21 per annum. In other respects the provisions of Ordinance No. 57 apply to the Gartmore Bursary.

Bursar—Charles Cameron, 1903.

GENERAL COUNCIL BURSARIES (*Arts*).—Under a scheme originated by the late Mr. David Hannay, Clerk to the General Council, a sum of about £500 (Fund No. I.) was raised by subscription among the members of Council for the foundation of Bursaries to be held for three years, and open to competition to first and second year's students in Arts. This fund has now been exhausted. In addition, a sum of £2,382 2s. (Fund No. II.) was raised to form the nucleus of a permanent General Council Bursaries Fund, and invested in the names of Trustees. Of this sum £1,000 is due to the liberality of the late Rev. Wm. Park, D.D., minister of Airth, to be applied in memory of his brother, the Rev. John Park, D.D., minister of Cadder. With Dr. Park's consent, the income of this sum was appropriated to two General Council Park Bursaries of £20 a-year, open to students of either sex who, having passed the Preliminary Examination in Arts, are about to commence their second year of actual attendance at the University. The General Council Park Bursaries are tenable for two years. The remainder of the free income of the fund is devoted to providing bursaries, called the General Council Bursaries, of such number and of such amount as may from time to time be determined by the Trustees. The General Council Bursaries are open to students of either sex on their first entering the University, and are tenable for three years. No

candidate shall obtain a General Council Bursary who shall not have passed the Preliminary Examination in Arts, but it is in the power of the Trustees to admit to a General Council Bursary, a candidate who has passed in at least three subjects of the Preliminary Examination on condition that the bursary shall not be retained unless the bursar passes in all the subjects not later than the second Preliminary Examination held after the time of admission. In 1903 and triennially thereafter (1906) one General Council Bursary shall be awarded in respect of special distinction in Dynamics to the student of the first year who, having passed the Arts Preliminary, has gained the highest marks in Dynamics in the Bursary examination, and has not obtained a bursary for general excellence.

Bursars—Gilbert P. Hogg, 1902; ¹William Scott, 1902 (Park); Elton L. Gueritz, 1903; David B. Meek (Dynamics), 1903; Elizabeth G. Morison, 1903 (Park).

JOHN GIBSON BURSARIES (*Any Faculty*).—Founded in 1877 by Miss Jane Gibson, in memory of her father, John Gibson of Oakbank and Johnstone, merchant in Glasgow. The Bursaries, which may be given to one student, or at most two, consist of the annual proceeds of £1,000. The administration is vested in trustees, who have great discretionary powers as to the conditions on which the Bursaries may be held. Their subsisting resolution is to award the Bursary to a Medical student entering on the third year of his course, and that it be retainable for three years. When a vacancy occurs applications are to be made before 15th October to Messrs. A. J. & A. Graham, 198 West George Street, Glasgow, who will furnish forms of application. Both Bursaries will be vacant in November, 1904.

DR. THOMAS GIBSON (ROTHESAY) BURSARY (*Medicine*).—Founded in 1893 in terms of the Trust Disposition and Settlement of Misses Christian and Janet Gibson, who bequeathed £1,000, free of legacy duty for that purpose, in memory of their brother. Present annual value, £36. The Bursary is tenable for four years, and is open to any matriculated student of Medicine (male or female) in the University preparing for service as a Medical missionary in connection with the Church of Scotland, who has completed the first professional examination in the year in which the Bursary is open. The Bursary is awarded to the qualified applicant who has obtained the best marks in the said examination; but in the case of an equality of marks between two or more candidates, the Senate may hold a further examination to determine to which of such candidates the Bursary shall be awarded. In the case of a casual vacancy, the Senate may appoint for the remainder of the period of tenure any

¹ Vacant through lapse of time.

qualified applicant who has shown diligence and proficiency in the earlier part of the curriculum in Medicine. In the event of the Bursary not being awarded in any year or years from lack of qualified candidates, the Senate may, in any subsequent year, if the funds of the Foundation admit, award an additional Bursary for one or more years, not exceeding four. There is a preference, *ceteris paribus*, to students of the name of Gibson.

Bursar—¹Robert Macfarlane, 1900.

GILCHRIST BURSARY.—See Howison and Gilchrist, p. 310.

GILHAGIE AND STRUTHERS BURSARY (*Theology*).—The Gilhagie Bursary was founded in 1753 by Agnes Gilhagie, widow of William Somerville, merchant in Glasgow, for a student in Divinity. It was tenable for four years, the annual value being £6 6s. In 1624 the Rev. William Struthers founded two Bursaries, each of the annual value of £6 13s. 4d., for students of Divinity. By Ordinance of the Universities Commission (1858) the two Struthers Bursaries were conjoined into one, tenable for three years, the holder to be M.A., and a student of Divinity. All other restrictions were abolished. By Ordinance No. 82 the Universities Commission (1889) combined the Gilhagie Bursary and the Struthers Bursary into one, called the Gilhagie and Struthers Bursary. The patrons of the joint-bursary are the Magistrates, Town Council, and Ministers of Glasgow, who may present any person without preference as to name, provided that he be a Master of Arts of a Scottish University. The Bursary is tenable for three years, and no longer, subject to the condition that the bursar shall during that period give regular attendance as a student of Theology in the University of Glasgow. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

Bursar—¹Augustine W. S. Forbes, M.A., 1901.

GLASGOW CITY EDUCATIONAL ENDOWMENTS BURSARIES (*Arts, etc.*).—Under scheme 10, section 31, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 19th May, 1885, the Governors of the Glasgow City Endowments Board are instructed to apply the annual sum of £500 in establishing Bursaries at the University of Glasgow. Each Bursary is of the yearly value of £25. One half of these Bursaries are to be awarded among the King's Scholars at Training Colleges who have attended two years at the University of Glasgow, on the report of the Board of Examiners appointed by the Scotch Education Department. Every King's Scholar obtaining such Bursary shall be taken bound to complete his curriculum for a degree in Arts or Science during the time he holds the Bursary, and thereafter to submit himself for examination for such degree. The other half of the Bursaries are to

¹ Vacant through lapse of time.

be awarded by competitive examination among those who have attended public or State-aided schools in Glasgow, and who require aid in obtaining a University education. They are tenable for four years. Forms of application may be had from the Secretary of the Board—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary at the general competition. In 1903 five King's Scholars and three other Bursars will be appointed.

Bursars—¹ William Miller, 1900; ² Andrew W. Rogerson, 1900; John M. Miller, 1901; Elsie F. Macdonald, 1901; James M^cKelvie, 1902; Francis M. Smith, 1902; Peter R. McNaught, 1903; Margaret B. Moir, 1903; Douglas D. Robertson, 1903.

King's Scholars—² Andrew W. Hutchison, 1902; ² Theodore D. Dunn, 1902; ² Dugald F. Percy, 1902; Mary C. Biggar, 1903; James R. Brown, 1903; Janet Grant, 1903; William Scott, 1903; John Sturgeon, 1903.

GEORGE GRANT BURSARY (*Arts*).—Founded in 1885 by Miss Susan Smith Grant of West Thorn, Lauder Road, Edinburgh, in memory of her father, George Grant, Esq., cotton spinner, Mile-End, Glasgow. Miss Grant assigned and conveyed to the Senate the sum of £1,200 in trust, to be applied in all time coming for providing one Bursary in connection with the Faculty of Arts. Miss Grant retains the right of nomination to the Bursary during her lifetime, but has provided that in the event of her failing or declining to nominate, and in all cases after her death, the Bursar shall be determined by competitive examination of first year students who are entering on a three or four years' course of study, and the Bursary shall be tenable for three or four years accordingly. On the Bursary falling vacant otherwise than by lapse of time, an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar is required to graduate in Arts, and before payment of the second moiety of the last year's Bursary he must produce evidence that he has taken his degree, or that he has passed all the examinations necessary for graduation. Any accumulations from vacancies or otherwise are to be added to the capital sum.

Bursar—Agnes M. Marshall, 1902.

GEORGE GRANT, JUNIOR, BURSARY (*Arts*).—Founded in 1885 by Mrs. Agnes Grant or Mair, wife of the Rev. John Mair, D.D., minister of the parish of South Dean, Roxburghshire, in memory of her

¹ Appointed in 1903 to George A. Clark Scholarship.

² Vacant through lapse of time.

brother, the late George Grant, junior, cotton manufacturer, Mile-End, Glasgow. Mrs. Mair, with the advice and consent of her husband as her curator and administrator-in-law, and for his interest in the premises, assigned and disposed to the Senate the sum of £1,200 in trust, to be applied by them in all time coming for providing one Bursary in connection with the Faculty of Arts. Mrs. Mair reserved to herself during her lifetime, and thereafter to her husband, should he survive her, the right to nominate to the Bursary, and to fix the classes to be attended by the Bursar and the period of his tenure. The Bursary is tenable for four years, and the Bursar is selected by competitive examination of first year's students. In the event of a vacancy occurring otherwise than by lapse of time an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar is required to graduate in Arts, and before payment of the second moiety of the last year's Bursary must produce evidence that he has taken the degree, or that he has passed all the examinations necessary for graduation. Any accumulations through vacancies or otherwise are to be added to the capital sum.

Bursar—Henry I. Cunningham, 1903.

HAMILTON BURSARIES (*Three in Arts, and Three in Theology*).—These Bursaries, now six in number, were founded by Anne, Duchess of Hamilton, in 1694. They were regulated by Act of Parliament, 1758, and further regulated by Ordinance No. 96 of the Universities Commission (1889). There are three Hamilton Bursaries in the Faculty of Arts, and three in the Faculty of Divinity, and each of them is tenable for three years, and no longer. The bursars in the Faculty of Arts shall attend such classes qualifying for graduation in Arts, and in such order as may be approved by the Senate. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this Foundation. The bursars in Arts receive £20, those in Divinity £25 per annum each, should the state of the funds permit. The patronage lies with the Trustees of the late Duke of Hamilton, and is exercised by their Commissioner, George Dalziel, Esq., 66 Queen Street, Edinburgh, to whom applications should be sent on or before the first of September.

Bursars in Arts—¹Robert Dewar, 1901; John H. Brightman, 1902; James Williamson, 1903.

Bursars in Theology—¹William W. Clark, M.A., 1901; ²Humphrey Chalmers, 1902; John Martin, M.A., 1903.

HAMILTON EDUCATIONAL TRUST BURSARIES (*Arts*).—Under scheme 39, section 28, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 13th May, 1887, the Governors of Hamilton Educational Trust are instructed to apply a

¹ Vacant through lapse of time.

² Vacant through resignation.

sum, not less than £50 yearly, in providing University or Technical College Bursaries. These Bursaries, each of the yearly value of £15, and tenable for three years, are open to be competed for by pupils attending public or State-aided schools in the burgh and parish of Hamilton, who require aid in obtaining a University or higher education. Applications to be lodged with Patrick Keith, Esq., Hamilton, Clerk of the Trust, on or before the first day of September. There will probably be a vacancy to which an appointment may be made in November, 1904.

Bursars—Thomas Ritchie, 1902 ; Margaret Blair, 1903.

HANNAY BURSARIES (*Arts*).—Three in number, founded in 1865 by the late Mr. Anthony Hannay, merchant, Glasgow, in memory of his deceased wife. To be awarded to young men, not under fourteen and not above nineteen years of age, who are about to commence their studies in the Arts classes, with a view to the Holy Ministry in connection with any of the Evangelical Religious Denominations in Scotland, and who shall engage to attend during each of the first three years of the curriculum not fewer than two classes. The principal qualifications of those to be selected are good moral character, promising talent, a fair preliminary education, and a want or deficiency in the necessary pecuniary means for pursuing a University education. Candidates for these Bursaries are required to submit themselves to the annual Bursary Examination at the commencement of the Winter Session of the University of Glasgow, or such other examination as the trustees may appoint ; but the result of said examination shall only be taken as one of the tests in judging of the merits of the applicants. The Bursaries to be bestowed for three years—one to be given each year. Value, about £15 per annum each. The appointment is vested in the Principal, the Dean of the Faculty of Procurators in Glasgow, and the President of the Faculty of Physicians and Surgeons in Glasgow. Applications to be made to Mr. Robert Brodie, 77 St. Vincent Street, and also to the Assistant Clerk (Matriculation Office) not later than 1st September. (One vacancy).

Bursars—Archibald A. Campbell, 1902 ; William Stevely, 1903.

HASTIE BURSARIES (*One in Arts and Two in Theology*).—The Rev. Mr. Hastie, by Deed of Mortification dated 5th September, 1707, founded a Bursary for a student in this University, which was first awarded in 1718. By an addition afterwards made to the foundation, the number of Bursaries was increased to three, two in Divinity and one in Philosophy.

The Universities Commission (1858), in an Ordinance of date 31st May, 1862, made regulations for these Bursaries, and further regulations have been made by the Commissioners (1889) in Ordinance No. 90. There are now three Bursaries on this Foundation,

each £26 in value—one in Arts and two in Theology. The Bursary in Arts is open by competition to all students entering on their first session of attendance in the Faculty of Arts, and is tenable for four years, but if a student graduate at the end of three years, he shall only retain his Bursary for the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The Bursaries in Divinity are open by competition to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first session of attendance in the Faculty of Divinity. They are tenable for three years, and no longer. In other respects the provisions of Ordinance No. 57 of the Universities Commission (1889) apply to all the Hastie Bursaries. The Senate, acting under Section xiii. of the last-mentioned Ordinance, have resolved to award the Hastie Bursary in Arts in respect of exceptional distinction in English, to a student of the first year who, having passed the Arts Preliminary, has gained the highest marks in English in the Bursary Examination, and has not obtained a bursary for general excellence.

Bursar in Arts—James D. Paterson, 1902.

Bursars in Theology—¹Thomas Low, M.A., 1901; George Ferguson, M.A., 1903.

GLASGOW HIGHLAND SOCIETY'S BURSARIES (*Ten in Arts and Eleven in Medicine*).—In 1892 the Managers of the Glasgow Highland Society framed a scheme of Scholarships and Bursaries for students of Highland descent. The scheme includes Scholarships tenable at Secondary or Technical Schools, and Bursaries tenable at the Glasgow and West of Scotland Technical College and at the University. The Bursaries may be held by men or women in a proportion to be determined by the Managers. The University Bursaries in Arts are ten in number, each of the annual value of £20, and tenable for four years in the Faculty of Arts, but the continuance of a Bursary in the second and subsequent years is dependent on the character of the certificates obtained by a Bursar in his classes in the previous year. They are awarded by competition among students of the first year. The Bursaries in Medicine, each of the annual value of £25, are tenable for five years in the University, or any other College approved by the managers. Candidates must pass the preliminary examination of the College at which they desire to attend, and the managers reserve to themselves the right to appoint the most suitable. In 1904 there will probably be two Bursaries in Arts and two in Medicine open to competition. Secretary, Mr. Hugh Brown, Jun., 58 St. Vincent Street.

¹ Vacant through lapse of time.

Bursars in Arts—¹Peter C. M'Arthur, 1900; ¹Alexander Murray, 1900; ¹George W. Walker, 1900; ¹Alexander Beaton, 1900; James C. M'Gregor, 1901; Alexander D. Ross, 1901; Roderick Morrison, 1901; Stewart L. W. Ross, 1902; George M'Leod, 1902; Isabella M. Ross, 1903; William M'Nicol, 1903.

Bursars in Medicine—¹Andrew M. Pollock, 1899; George D. M. Beaton, 1900; Murdo D. M'Kenzie, 1900; John H. Bisset, 1901; Murdo M. MacRae, 1901; Neil A. M. Johnson, 1901; Murdo M'Phail, 1902; Robert C. Robertson, 1902; Murdo J. Mackenzie, 1903; Alexander Mackinnon, 1903.

HILL BURSARIES (*Arts*).—Two Bursaries of the annual value of not less than £10, nor more than £25 (present value £15). These Bursaries tenable for three years shall be awarded on the results of the Bursary Competition of the University of Glasgow, and shall be open to pupils attending the secondary departments of public or State-aided schools in the district of the School Board of the Parish of Govan, who shall be approved by the Governors of Hill's Trust, and whose parents are in such circumstances as to require aid in giving their children higher education. Secretary, John A. Craigie, Esq., 151 Bath Street, to whom in case of a vacancy application should be made before 1st September.

Bursars—¹Flora Ritchie, 1901; ¹Janet I. Macphail, 1901.

HOWISON AND GILCHRIST BURSARY (*Arts*).—In 1613 the Rev. John Howison, Minister of Cambuslang, founded a Bursary for a qualified scholar of honest name and good report, son of a craftsman of Glasgow. Failing the son of a craftsman of Glasgow, any other qualified scholar might be selected by the Patrons. Mr. John Gilchrist, tailor in Glasgow, founded in 1700 a Bursary in Philosophy for a student, being the son of a tradesman freeman in the burgh of Glasgow, with a preference to the names Gilchrist, Bryce, and Boyd.

By Ordinance No. 89 the Universities Commission (1889) combined these two Bursaries into one, called the Howison and Gilchrist Bursary. The Patrons are the Trades' House of Glasgow, and any person may be presented without restriction as to birth or preference as to name. The Bursary is tenable for four years, but if a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary. Value £17 per annum.

Bursar—¹John F. Steven, 1900.

HUTCHESONS' EDUCATIONAL TRUST BURSARIES.—Under Scheme 9, Section 40, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 5th March, 1885, the Governors of Hutchesons' Educational Trust are instructed to apply an annual sum of not less than £400 in establishing University or Technical College Bursaries. These Bursaries, each of the yearly value of £20, and tenable for four years, are open to be competed for by boys who have attended Hutchesons' Grammar School for at least two years immediately preceding the competition, and completed the curriculum in the Secondary Department. Forms of application may be had from the Secretary of the Trust—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the first day of September in each year. The names of candidates who are found to possess the prescribed qualification will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in the order of merit who fail to win a Bursary at the general competition. In 1904 five Bursars will be appointed.

Bursars—¹James Fairley, 1900; ¹Dugald McCallum, 1900; ¹John N. M. Paterson, 1900; ¹Thomas T. Rankin, 1900; William R. Canmook, 1901; Aaron Cantor, 1901; William J. Falside, 1901; William T. Heughan, 1901; James R. Mitchell, 1901; David H. Battersby, 1902; William M. Kerr, 1902; Thomas Sutherland, 1902; James Muir, 1902; James W. Findlay, 1903, John Graham, 1903; Ernest W. Russell, 1903.

THOMAS HUTCHESON BURSARY (*Theology, Law, or Medicine*).—This Bursary, formerly known as the Old Library Bursary, was founded by Mr. Thomas Hutcheson of Lambhill in 1641. Preference was given to a son of a burgess, particularly one of the name Hutcheson or Herbertson. The Patrons are the Magistrates and Town Council of Glasgow. Ordinance No. 83 of the Universities Commission (1889) prescribes that the Bursary shall be called the Thomas Hutcheson Bursary, and that it shall be lawful for the Patrons to appoint to it, without preference as to name or birth, any Master of Arts who is entering on his course of study in any one of the Faculties of Divinity, Law, or Medicine. The Bursary is tenable for four years, but if a bursar in Divinity graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study in Divinity approved by the Senate. Value £11 2s. 2½d. per annum. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September. (Vacant.)

HYNDFORD AND ROSS BURSARY (*Arts*).—In 1617 Mr. Michael Wilson founded a Bursary, called the Hyndford Bursary, for a

¹ Vacant through lapse of time.

student in Philosophy. The right of presentation belonged to the representative of Sir James Carmichael, viz., Sir W. C. Anstruther, Bart. In 1659 Captain William Ross of Rosseyle founded the Ross Bursary for a student in Languages and Philosophy. The appointment was vested in the Earl of Glasgow. By Ordinance No. 95 of the Universities Commission (1889), these two Bursaries were combined into one, to be called the Hyndford and Ross Bursary. It is tenable for four years, but if the bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The patronage of the Bursary is vested in Sir W. C. Anstruther, Bart., and his heirs, and the Earl of Glasgow and his heirs, who exercise their right of presentation by turns. The appointment in 1903 belonged to the former. In other respects the provisions of Ordinance No. 57 apply to the Bursary. Value £10 16s. 8d.

Bursar—¹James B. Gordon, 1903.

JOHN FERGUSON JAFFREY BURSARY IN MENTAL PHILOSOPHY (*Arts*).—This Bursary, founded in 1877, is of the annual value of £34, and shall be awarded to a student on entering the third session of his attendance, i.e. a student who has attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who having passed the Preliminary Examination in Humanity and Greek, has attended for one session the higher classes in those subjects, and who proposes to attend in the following sessions the classes of Logic, Moral Philosophy, and English Literature. Candidates are examined in such subjects in English Literature and Logic as may be fixed by the Senate. The examiners are the Professors of English Literature, Logic, and Moral Philosophy. The Bursary shall, as a rule, be tenable for two years, but on condition that the Bursar, during the two years of his tenure, shall complete his attendance on the classes of Logic, Moral Philosophy, and English Literature, and shall also attend one at least of the advanced classes taught by the Professors of Logic and Moral Philosophy, and shall pass the examinations in Logic, Moral Philosophy, and English Literature for graduation in Arts. The subjects of examination are—1. *Logic*: (a) Descartes, *Meditations*, (Veitch's translation); (b) Ferrier, *Lectures on Greek Philosophy*, the pre-Socratic period; 2. *English Literature*: (a) Shakespeare, *As You Like It*; (b) Tennyson, *Idylls of the King*. Candidates are not expected to deal with questions of textual criticism on either of the works in English Literature. There will be a competition in November, 1905.

Bursar—Walter M. MacCulloch, 1903.

¹ Appointment under Ord. No. 57, Section xv.

MALCOLM KERR BURSARIES (*Science, etc.*).—Two in number, founded in 1874, and consisting each of half the free annual proceeds of a sum of £1,000, bequeathed by the late Mr. Malcolm Kerr, stationer in Glasgow. One of the Bursaries is in Natural Philosophy, the other in Chemistry. The Bursaries are given on examination, and are tenable for three years, provided the Bursars continue for so long to prosecute in the University Laboratories, to the satisfaction of the Senate, the study of Natural Philosophy and Chemistry respectively. The subjects of examination in Natural Philosophy are the same as those for that subject in the examination for the ordinary degree of M.A., and in Chemistry, the same as those for the Final Science Examination for B.Sc. Present value, £22 to each Bursar. (Bursary in Natural Philosophy vacant.)

Bursar in Chemistry—Alfred Davidson, 1903.

THE KINTYRE (KER) BURSARY (*Any Faculty*).—This Bursary, founded in 1862 by Robert Ker, Esq., of Auchinraith, merchant in Glasgow, originated in the Founder's desire "to increase the opportunities of acquiring knowledge to the natives of Kintyre."

The Office-bearers of the Kintyre Club were appointed Patrons. By the Deed of Mortification, the free proceeds of a sum of £500 sterling—about £20 sterling—were appointed to be paid to a student to be nominated by them, and who should enjoy the said Bursary for the term of three years while prosecuting his studies at the Glasgow University, with power to the Patrons to determine, in every case, whether the Bursary should be granted for a longer or shorter period than three years, but in no instance is it to be granted for a longer period than four years to the same student. No restriction is placed upon the student as to his profession or calling. Applicants must be connected with Kintyre, and be entering the University for the first time. When a vacancy occurs application should be lodged with the Honorary Secretary of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 10th June.

Bursar—Walter M. MacCulloch, 1901.

THE KINTYRE (ALEXANDER LOVE) BURSARY (*Any Faculty*).—This Bursary was founded in 1890 by the family of the late Alexander Love of Campbeltown. It consists of the free proceeds of a sum of £300 sterling—about £11—and is administered by the Office-bearers of the Kintyre Club. The Bursar must be a native or the son of a native of Kintyre, or actually resident there, and entering upon his first session at the University. His circumstances must be such as to render aid important. The period of tenure is not to exceed four years. When a vacancy occurs application should be made to the Hon. Sec. of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 31st May.

Bursar—Archibald C. Brown, 1903.

LAING BURSARY OR BURSARIES (Arts).—The late Alexander Laing, LL.D., some time Professor of Mathematics in Anderson's College, Glasgow, who died in 1882, bequeathed to trustees the sum of £500 to found one or two Bursaries in the Faculty of Arts. The trustees by a deed dated 26th July, 1883, conveyed to the Senate the sum of £500 of the preference 4 per cent. stock of the Glasgow and South-Western Railway Company, under certain conditions and regulations. The foundation is for providing, in the option of the Senate, one Bursary of £20, or two of £10 each. The Bursary is open to competition to all students entering on their first session in the Faculty of Arts (a preference being given, *ceteris paribus*, to natives of Brechin). The period of tenure is three years. Should the Bursary become vacant otherwise than by lapse of time, the income of the fund during the vacancy is to be added to capital.

Bursar—John C. Bell, 1902.

JAMES LAING BURSARIES (Arts).—Founded in 1892, under the Trust Disposition and Settlement of Mr. James Laing, Writer, Denny. So far as the funds admit, the Trustee appoints annually to two Bursaries, each of the annual value of £25, and tenable for four years. They are open to candidates (male and female) who have been educated for at least three years in any school or schools in the County (including the Burgh) of Stirling, and who are entering upon their first or second year of study in the University of Glasgow. Applications with certificates of qualification and good conduct from the teacher or teachers under whom candidates have been educated, should be lodged with Mr. William Jenkins, Writer, Denny, not later than 1st September. The names of candidates who are found qualified will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries. Failing candidates qualified as above, the Bursaries are open to competition to students of the first or second year from any part of Scotland. (Two vacancies.)

Bursars—¹James Burns, 1900; ¹John B. Stephen, 1900; Mary C. Biggar, 1901; Thomas Baxter, 1901; Hugh D. Sempill, 1902; Robert Jenkins, 1902; Robert Craig, 1903; Jean G. Stephen, 1903.

LAMB BURSARY (Arts or Theology).—Founded in 1863 by the late Rev. Dr. William Lamb, minister of Carmichael, and appropriated to a student in Arts or Divinity. Bursar appointed by the Minister and Kirk Session of Carmichael. The preference to applicants in the parish of Carmichael or Pettinain, and the restriction to applicants from the Presbytery of Lanark, were cancelled by Ordinance No. 57 of the Universities Commission (1889). Value, about £12 per annum.

Bursar—Andrew Donald, 1901.

¹ Vacant through lapse of time.

LANFINE BURSARIES (Arts).—By the will of the late Miss Martha Brown of Lanfine a sum of £5000 was bequeathed in 1902 to this University, “to be applied in payment of Bursaries tenable for not more than four years, of not less than £25 and not exceeding £40 each per annum, to be held by students who have passed a competitive examination in classes connected with the Faculty of Arts under such conditions as the Principal and Senatus of Glasgow may from time to time prescribe, the said Bursaries to be called the Lanfine Bursaries.”

The following regulations were adopted by the Senate on 19th February, 1903 :—

1. There shall be six bursaries, each of the annual value of £27, and each tenable for two years.

2. They shall be held by students of either sex who, having passed the full Preliminary Examination in Arts, are pursuing a course for graduation with Honours.

3. Three bursaries shall be awarded annually in the following alternating order :—In April, 1904, and thereafter biennially (1906), one bursary in each of the following Groups of Honours, viz. Mental Philosophy, Modern Languages, English ; in April, 1905, and thereafter biennially, one bursary in each of the following Groups of Honours, viz. Economic Science, History, Semitic Languages.

4. (a) Candidates for the bursary in Mental Philosophy must be attending the ordinary class in Logic or in Moral Philosophy, and the bursary shall be awarded to the candidate who, in the year of competition, is highest in the honour list of the Ordinary Logic Class at the first vacancy, of the Ordinary Moral Philosophy Class at the second vacancy, and so on alternately.

(b) Candidates for the bursary in Modern Languages must be attending the ordinary class in French or in German, and the Bursary shall be awarded to the candidate who, in the year of competition, is highest in the honour list of the Ordinary French Class at the first vacancy, of the Ordinary German Class at the second vacancy, and so on alternately.

(c) Candidates for the bursaries in English, Economic Science, History, and Semitic Languages, must be attending the ordinary classes in English, Political Economy, History, and Hebrew respectively, and the bursary in each case shall be awarded to the candidate who, in the year of competition, is highest in the honour list of the class which, as a candidate, he is required to attend.

5. The last moiety of each bursary shall not be paid to the bursar until he has obtained the Degree of Master of Arts with Honours in the Group in connection with which he holds his bursary.

6. If in any year bursaries allocated to any of the above Groups are not awarded, such bursaries shall, in the succeeding year, be open to competition in the Groups of (a) Classics and (b) Mathe-

matics and Natural Philosophy, and the award shall be made on the same principles as in the case of the bursaries in Mental Philosophy and Modern Languages.

Bursars—William S. Stewart (Ment. Phil.), 1904; Annie M. Macgregor (Mod. Lan.), 1904; John R. Orr (English), 1904.

LEADBETTER BURSARY (*Arts*).—This Bursary was founded in 1855 by Mr. John Leadbetter, merchant, Glasgow. It was made tenable for four years, and the classes to be attended by the Bursar in each of the four years were prescribed. A preference was given to boys who had attended the five years' Classical Course of the High School of Glasgow. *Patrons*—The Lord Provost and Magistrates. Ordinance No. 88 of the Universities Commission (1889) empowers the Patrons to present to the Bursary any person who has completed the five years' Classical course of the High School of Glasgow, whom failing, any person, without restriction as to parentage, who has received a similar classical education elsewhere. The Bursar must attend the Latin and Greek classes in the University during at least one year, and thereafter continue a course of study in the University necessary for the Degree of Master of Arts. The Bursary is tenable for four years, but if the holder graduate at the end of three years he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

Bursar—William Barclay, 1902.

ARCHBISHOP LEIGHTON BURSARY (*Arts and Theology alternately*).—Robert Leighton, Archbishop of Glasgow, founded in 1681 two Bursaries, which were tenable for four years in Philosophy, and two or three years in Divinity. By Ordinance No. 86 of the Universities Commissioners (1889), the two Bursaries were combined into one of the annual value of £18, to be called the Archbishop Leighton Bursary. An appointment is made of a Bursar in the Faculty of Arts, and at the end of his period of tenure an appointment in the Faculty of Divinity, and so on alternately, the period of tenure in each case being three years, and a person who has held the Bursary in Arts being eligible for appointment also in Divinity. The appointment in 1904 will be in Divinity. The provisions of Ordinance No. 57 apply to this Bursary. When a vacancy occurs, two students are nominated by the Town Council, and examined by the Senate, who prefer the best scholar. Applications must be lodged with the Town Clerk, City Chambers, on or before 1st September.

Bursar—¹ William R. Campbell, 1901.

¹ Vacant through lapse of time.

JOHN LEYDEN BURSARY (*Arts*).—Founded in 1879 by the Glasgow Border Counties Association in memory of John Leyden, poet and scholar. The Fund consists of the sum of £429 3s. 8d. raised by subscription. The Bursary is open to free competition under the same regulations as the competition Bursaries in the University. Tenable for three years. The holder to pass through the Arts course, and at the termination thereof to take the Degree of M.A.

Bursar—William M'Adam, 1902.

JAMES LOCHHEAD BURSARY (*Arts*).—Founded in 1886 in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £500 for that purpose, in memory of her brother, who died in Ohio. A preference is given to students of the name of Lochhead, whose parents are members of the Established Church of Scotland, whom failing, to students whose parents are members of the said Church. The Bursary is tenable for three years in the Faculty of Arts.

Bursar—David J. Wallace, 1903.

LOCHHEAD AND MITCHELL BURSARIES (*Arts*).—Two in number and of equal value, founded in 1886, in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £2,000 (free of legacy duty) for that purpose. The present annual value is £33 to each bursar. A preference is given to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. They are tenable for four years in the Faculty of Arts.

Bursar—¹ John Miller, 1900 ; William J. Merry, 1903.

LOGAN BURSARIES (*One in Theology and One in Medicine*).—Two in number, one in Divinity and one in Medicine, founded in 1863, by Mrs. Logan, widow of Mr. William Logan, tinsmith in Glasgow. The Bursary in the Faculty of Divinity is tenable for three years, and the one in the Faculty of Medicine for four years. The preference to the names Logan and Johnstone was cancelled by Ordinance No. 57 of the Universities Commission (1889). The value of each is £17 per annum. The Bursary in Theology is vacant. Appointment by the Senate.

Bursar in Medicine—Robert Donald, 1901.

LORIMER BURSARIES (*Four in Theology, Four in Medicine, and Eight in Arts*).—By Trust Disposition and Settlement of date 17th October, 1872, the late Mr. John Lorimer, merchant in Glasgow, directed his Trustees to make over to the Principal and Professors of the University of Glasgow, the residue of his estate, amounting to the sum of £8,594 5s. 5½d., the annual proceeds of £5,000 thereof

¹ Vacant through lapse of time.

to be applied in payment of Bursaries of an amount not exceeding £50 each, and tenable for three years. One Bursary at least is to be payable to a matriculated student of each of the following subjects :—1, Theology ; 2, Medicine ; 3, Philosophy ; 4, Mathematics ; and the proceeds of the remainder of such residue are to be applied in payment of smaller Bursaries tenable by students of the above-mentioned subjects.

The following regulations have been adopted by the Senate :—

1. The Bursaries shall be sixteen in number—namely, eight of the annual value of £24, and eight of the annual value of £16, and shall be tenable for three years.

2. Four Bursaries—viz., two at £24, and two at £16 shall be held by Students of Theology, and shall be open to competition to students entering the Divinity Hall. The second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed the examinations for the degree of B.D.

3. Four Bursaries—viz., two at £24, and two at £16, shall be held by Students of Medicine, and shall be open to competition to students who have attended the first session of their professional study in the University of Glasgow. The subjects of examination, which shall be prescribed by the Faculty of Medicine, are Elementary Anatomy, Elementary Chemistry, and Botany. The examinations are held at the same times as the Autumn Professional Examinations in these subjects, and, in the case of Chemistry and Botany, on the same papers. The second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed his Third Professional Examination for the degree of M.B.

4. Four Bursaries—viz., two at £24, and two at £16, shall be open for competition to students who, having passed their whole Preliminary Examination, are entering on their second session of attendance, and who, not having attended the classes of Logic, Moral Philosophy, and English Literature, propose to attend these classes in the following sessions. Candidates shall be examined in such subjects in English Literature and Logic as may be fixed by the Senate. The Examiners shall be the Professors of English Literature, Logic, and Moral Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment, he must enter one or more of the classes of English Literature, Logic, and Moral Philosophy, and in the course of his tenure of his Bursary must attend, besides the above classes, one or more of the Honours classes in English Literature, Logic, or Moral Philosophy. The second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed examinations in Logic, Moral Philosophy, and English for graduation in Arts.

5. Four Bursaries—viz., two at £24, and two at £16, shall be open for competition to students of either sex who, having passed the whole

Preliminary Examination, are entering on their second session of attendance. Candidates shall be examined in such subjects in Mathematics as may be fixed by the Senate. The Examiners shall be the Professors of Mathematics and Natural Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment he must enter the class of Mathematics, and prosecute the course of study required for passing the Honours examinations in Mathematics and Natural Philosophy for a Degree in Arts. The second moiety of the third year's Bursar shall not be paid until the Bursar shall have passed the examinations in Mathematics and Natural Philosophy for graduation in Arts or the First Science Examination in these subjects for graduation in Science.

In session 1904-5 four of the above £24 Bursaries will be open to competition—viz., one in Theology, one in Medicine, one in Philosophy, and one in Mathematics. The Bursaries in Theology will be decided by the results in the general competition for Bursaries in Theology. The competition for the Bursaries in Medicine will be held on 26th and 27th September, 1904. For the Bursaries in Philosophy the subjects of examination will be those prescribed for the John Ferguson Jaffrey Bursary (see p. 312), and the examination will take place along with the Autumn examinations for M.A. in English and Logic. The examination for the Bursaries in Mathematics will take place along with the Arts and Science Preliminary Examination in Mathematics, but may embrace higher papers.

Bursars in Theology—¹A. S. Dunlop, M.A., 1901; Gordon Quig, M.A., 1902; Donald MacPherson, 1902; Gavin Lawson, M.A., 1903.

Bursars in Medicine—¹John S. Dunn, 1901; Thomas M'Cririck, M.A., 1902; John M'Vittie, 1903.

Bursars in Arts—¹Charles Cullen (Phil.), 1901; ¹William Miller (Math.), 1901; Albert F. L. Brayne (Phil.), 1902; John A. Falconer (Phil.), 1902; Thomas M. MacRobert (Math.), 1902; James Dunlop (Math.), 1902; William Barclay (Phil.), 1903; James Paul (Math.), 1903.

LUMSDEN BURSARY (*Theology*).—This Bursary was founded in 1850, by Mr. James Lumsden, stationer, Glasgow. Value, £15. It is given to a Divinity student of the first year, and may be held for four years. There is a preference to sons of members, or of deceased members of the Stationers' Company of Glasgow. The Patrons, viz., the Principal, the Professors of Divinity, Hebrew, and Church History, and the President of the Stationers' Company—have resolved that when no candidate with a preferential claim applies for the Bursary it shall be awarded in accordance with the results of the competition for Bursaries in Theology. (Vacant.)

¹ Vacant through lapse of time.

LUSK BURSARY (*Arts*).—Founded in 1876, in accordance with holograph settlement executed by Mr. Robert Lusk, merchant in Greenock, who bequeathed the sum of £1,000, reduced by legacy duty to £900, for “a Bursary in connection with the Glasgow University, to be given to the most successful student attending the preparatory course of studies in said University who may intend to follow out the ministry in connection with any of the Presbyterian bodies in Scotland,” “and who may, on public examination or competition, be found to be best qualified and most deserving.” The competition is open to first or second year’s students in Arts. Tenable for three years, but may be continued for an additional year. Value, £35 per annum.

Bursar—Robert H. Napier, 1901.

MACARTHUR BURSARY (*Medicine*).—Founded in 1881 by Miss Jean Macarthur, in memory of her uncle, John Macarthur, Doctor of Medicine in Glasgow. The Bursary consists of the annual proceeds of £500. The administration is vested in a Committee appointed annually by the Faculty of Physicians and Surgeons of Glasgow. The Bursary must be held by a student prosecuting the study of Medicine in the University of Glasgow. Under the rules laid down by the Committee, applicants must have completed three winter sessions of medical study, and not have entered on the fourth winter session. Preference will be given to applicants who have taken one or more First Class Certificates in the Medical Classes. The Bursary is tenable for two years.

Application to be made prior to 15th April, 1905, to Alexander Duncan, LL.D., Faculty Hall, 242 St. Vincent Street, Glasgow, who will furnish forms of application.

Bursar—George A. Allan, 1903.

M’CRIE BURSARIES (*Arts*).—These Bursaries were founded by the Rev. James M’Crie, D.D., of Dangart, Senior Minister of the U.P. Congregation of Old Meldrum, in the County of Aberdeen. They are of the annual value of £25, tenable for four years, provided the holder passes a prescribed examination at the commencement of each session and complies with the other conditions mentioned in the Deed of Foundation. The Bursary fund consists of certain lands in the parish of Colmonell and other heritable and movable property mortified for the purpose and vested in the Magistrates and Town Council of Ayr. The candidates must have been born in the parishes of Ballantrae, Colmonell, Barr, Girvan, Ayr, Old Meldrum, Tarves, Daviot or Bourtie, or in the City of Aberdeen, or in the Town of Ayr. The students must also be the sons either of mechanics, or of cottars, or of farmers not paying more than £100 of yearly rent, or of ministers not having more than £130 of yearly income, without respect to religious sect or denomination. Candi-

dates of the names of M'Crie, Forsyth, M'Cracken, or Spark, are to have a preference if otherwise deserving. The Bursaries may be held along with other Bursaries. Forms of application may be obtained from Mr. A. G. Young, Town Clerk, Ayr, and should be lodged with him on or before the first day of September in each year in which a vacancy occurs. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for students of the first year.

Bursars—William White, 1901 ; John M. Hunter, 1901 ; David Burns, 1903.

JAMES MELVILLE M'CULLOCH BURSARY (*Arts*).—Founded in 1885 in memory of the late Rev. James Melville M'Culloch, D.D., minister of the West Parish, Greenock. It consists of the free annual income of about £400. It is open to competition to students of the first year in the Faculty of Arts, who shall have been educated for not less than three years at any school or schools in Greenock. Tenable for four years, the Bursar attending the qualifying course for the Degree in Arts. The second moiety of the fourth year's Bursar shall not be paid until the Bursar shall have passed all the examinations required for the Degree of Master of Arts. In the event of a vacancy occurring otherwise than by lapse of time, the Senate may appoint a student of the same standing qualified in like manner, or may arrange a new competition.

Bursar—James S. MacGillivray, 1902.

MACDONALD BURSARIES (*Arts, Law, or Medicine*).—Two in number, founded in 1882, in terms of the Trust Disposition and Settlement of Mr. Alexander Macdonald, M.P., who bequeathed to the University £1,000 for the purpose of assisting students in a course of purely secular education. The Bursaries are equal in value and tenable for four years in Arts, Law, or Medicine. Only miners under the age of twenty-one years, who have worked underground in any part of the United Kingdom, are eligible as candidates. The Bursaries are awarded in accordance with the results of an examination in general knowledge, particularly in writing, arithmetic, geography, grammar, and history. (One vacancy.)

Bursar—James Dunbar, 1901.

JOHN AND ISABELLA MACDOUGALL BURSARIES (*Arts*).—Founded in 1884, under the Trust Disposition and Deed of Settlement of Miss Isabella Macdougall, Perth. Miss Macdougall directed her Trustees to devote the residue of her means and estate to the foundation and endowment of one or more Bursaries, payable to students born in the county or city of Perth, attending the classes in the Faculty of Arts, in the Universities of Edinburgh, Glasgow, and St. Andrews.

The Bursaries are of the annual value of about £33, and are tenable for a period not exceeding three years. The Trustees are the Patrons. The candidates, who may be of any religious denomination, must undergo an examination by examiners appointed by the trustees. The Bursaries are open to students who are either (1) about to enter on their first session, and who shall pass the Preliminary Examination in Arts, or (2) who have already attended the junior classes for one session. A vacancy occurring otherwise than by lapse of time may be filled up by the appointment, after examination, of a student of equal standing with the retiring Bursar. It is not competent for any person to hold any of these Bursaries along with any other Bursary or appointment yielding to him an annual income of fifty pounds or upwards. The Trustees are the following ministers in Perth, viz.:—The Rev. Walter E. Lee, East Church Parish; the Rev. F. H. Martin, St. Paul's Parish; the Rev. Peter R. Landreth, West Church Parish; the Rev. J. M. Scott, Middle Church Parish; and their successors in office for the time being, Mr. Thomas Soutar, retired banker, and Mr. Wm. Cochrane Young, solicitor in Perth. Candidates are requested to send in their names and addresses to Mr. Young, 9 St. John Street, Perth, on or before 1st September. (One vacancy.)

Bursars—John Raukine, 1902; Alexander Silver, 1902; James Cunnison, 1903.

MALCOLM M'EWEN BURSARY (*Arts or Science*).—Mr. William M'Ewen, tobacco manufacturer, Glasgow, who died on 16th December, 1878, by his Trust Disposition and Settlement dated 28th November, 1878, directed his trustees, Mr. James Boyd, writer, Glasgow, and others, to devote a sum of £500 to the foundation of a Bursary in the University of Glasgow, to be called the "Malcolm M'Ewen Bursary," in memory of his brother, Mr. Malcolm M'Ewen, who died on 16th January, 1878. The Bursary was founded in 1884. After consultation with the Senate, the Trustees resolved that the regulations for the Bursary should be as follows:—The Bursary is open to competition at the annual Bursary Examination to all students entering on the first session of attendance at the University, is awarded by the Senate in accordance with the results of that examination, and is tenable for four years. The Bursar on his appointment must elect to follow either the course of study qualifying for the Degree of M.A., or the course of study qualifying for the Degree of B.Sc., and must attend at least two classes each winter session. The Bursary is payable by equal moieties on the second day of February, and at the close of the winter session, but the second moiety of the fourth year's Bursary shall not be paid until the Bursar shall have passed all the examinations for the Degree appropriate to the course of study chosen by him at the beginning of his

tenure of the Bursary. A vacancy occurring otherwise than by lapse of time may, in the discretion of the Trustees, either be filled up at the first term thereafter, or not till the usual term at which the competition for the Bursary would, in ordinary course, have fallen due, and, in the latter event, accumulations from this source are to be added to the capital fund.

Bursar—David Arthur, 1901.

JAMES MACFARLANE BURSARY (*Theology*).—Miss Helen Macfarlane, who died on 12th March, 1886, by a Codicil dated 15th August, 1882, to her Trust Disposition and Settlement, directed her Trustees to hand over to the Senate the Portrait of her late brother, Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and the sum of £1,000 free of legacy duty for the foundation of a Bursary in the Faculty of Theology, in memory of her brother, the Rev. Dr. James Macfarlane, minister of Duddingston. Preference to the name Macfarlane. The competition is open to Divinity students of the first year, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any four subjects taken out of at least two departments for graduation in Arts. The Bursary is now of the annual value of £25, and is tenable for three years. In the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

Bursar—¹ John Chambers, 1901.

JOHN MACFARLANE BURSARY (*Medicine*).—Founded in 1874 by the brothers and sister of the late Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and to his memory. Patrons—The Faculty of Medicine. It is of £40 annual value, and it is tenable for three years. The competition is open to students who have attended the first session of their professional study in the University of Glasgow. The subjects of Examination to be prescribed by the Patrons; and the success of the candidates in the examination in General Education will form an essential element of the decision. Any surplus which may accumulate from vacancies or otherwise, is to be applied to establish a "Macfarlane Prize" in the Class of Practice of Medicine. The subjects of Examination for this Bursary are Elementary Anatomy, Elementary Chemistry, and Botany. The examinations are held at the same times as the Autumn Professional Examinations in these subjects, and in the case of Chemistry and Botany on the same papers.

Bursar—Thomas L. Craig, 1902.

ROBERT MACFARLANE BURSARIES.—By a Mutual Trust Disposition and Settlement of date 7th January, 1888, Miss Mary Ann and Miss Margaret Macfarlane directed their Trustees to make over

¹ Vacant through lapse of time.

to the Senate of the University of Glasgow a sum of £3,000 for the foundation of Bursaries in memory of their brother, Robert Macfarlane, Writer, Paisley, out of the estate bequeathed by him to them. The Bursaries are to be given to deserving students at the University of Glasgow looking forward to being lawyers, specially including students in the Law Classes, preference being given to young men connected with Paisley.

MACGROUTHER BURSARIES (*Arts*).—Two in number, founded in 1872, the one by Mrs. Sophia Susan MacGrouther, widow of Mr. James MacGrouther of Leigham Court Road, Streatham, Surrey, who mortified in favour of certain trustees the sum of £500; the other by the Misses Mary and Jane MacGrouther, residing in Glasgow, his sisters, who also mortified in favour of the same trustees the sum of £500, for the purposes of the foundation, and in memory of, and in fulfilment of the intentions of, the said James MacGrouther. The Senate are the Patrons. The Bursaries are open to competition to students entering the Faculty of Arts for the first time, and are awarded to students who, having passed the Arts Preliminary, have gained the highest marks in Mathematics in the Bursary examination, and have not obtained a bursary in the general competition. They are tenable for four years, subject in each case to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A. An appointment to the £15 Bursary will be made in October, 1905.

Bursars—David N. Strathie (Mathematics), 1903.

M'KECHNIE BURSARIES (*Any Faculty*).—Two in number, founded by the Trust Disposition and Settlement of the late Thomas M'Kechnie, merchant in Girvan, who bequeathed for that purpose the sum of £2,000 to the Minister of the Established Church in Girvan, the Magistrates of Girvan, and others, and appointed them patrons of the Bursaries. The Patrons, in nominating and presenting students to the Bursaries, are instructed to prefer, in the first place, such as are of the founder's kindred; secondly, such as are of the name of M'Kechnie; and thirdly, such as were born in the parish of Girvan, provided that such students are properly qualified by their previous education for entering the University of Glasgow. Failing candidates qualified as above, the Bursaries are to be awarded to those who shall be found best qualified and deserving. The Bursaries are tenable for four years. When a vacancy occurs application should be made to Messrs. W. and D. Andrews, solicitors Girvan, early in August.

Bursars—¹John M'Cartney (Med.), 1899; John Brown (Arts), 1903.

¹ Vacant through lapse of time.

MACKINTOSH MENTAL SCIENCE BURSARY (*Medicine*).—Founded in 1889 by Dr. Donald Mackintosh of London, in memory of his brother, Dr. Alexander Mackintosh, for many years superintendent of the Royal Lunatic Asylum, Gartnavel. Value, about £31. Tenable for one year. The competition is open to matriculated students of medicine who have attended the Lectures on Insanity in the University, and will be awarded in accordance with the results of an examination conducted in June by the Professor of Practice of Medicine and the Lecturer on Insanity acting conjointly. The holder of the Bursary shall, while holding it, devote special attention to the practical study of Insanity to the satisfaction of the Faculty of Medicine.

Bursar—Alexander S. M. Macgregor, 1903.

M'KISSACK BURSARY (*Medicine, Arts, or Divinity*).—Founded in 1900 in terms of the Trust Disposition and Settlement of Mrs. Jane M'Kissack, Nairn, who bequeathed £750 for that purpose, in memory of her husband, Charles M'Kissack. The Patrons of the Bursary are the Provost and Bailies and the Ministers of the Presbyterian and Congregational Churches in the Royal Burgh of Nairn. The Bursary is tenable for four years, and is to be given to a medical student prosecuting his studies at any College, University, or Training Institute approved by the Patrons, in preparation for Christian mission work among the Jews. Failing a student in medicine, the Bursary may be given to a student in Arts or Divinity having the same object in view. Applicants must be of British nationality and not under seventeen years of age at the date of presentation. Preference, *ceteris paribus*, will be given to candidates of the name of M'Kissack, or natives of the counties of Elgin and Nairn, or candidates who have at any time resided for twelve consecutive months in these counties. The next presentation to the bursary will be made in September, 1905. For further particulars apply to Messrs. Lamb & Co., solicitors, Nairn.

Bursar—Herbert C. Orrin, 1901.

MACLEAN TRUST BURSARIES (*Arts*).—Under the scheme for the administration of the Trust of the late Colonel Alexander Maclean, approved of by the Court of Session on 18th July, 1895, the Governors are authorised to apply a portion of the revenue of the Trust in payment of Bursaries of the yearly value of not less than £25 each, tenable for four years at any Scottish University. The Bursaries are open to students of either sex of the name of Maclean entering on the Arts curriculum, and are awarded by competitive Examination in such manner as the Governors shall determine. The Bursars must regularly attend at least two classes each winter session in the curriculum for a degree in the Faculty of Arts. But any Bursar who has held his Bursary throughout a three years'

curriculum in the Faculty of Arts, and taken a degree in that Faculty, may continue to hold it during the fourth year in any other Faculty. The Governors are the Lord Provost and Magistrates of the City of Glasgow. Forms of application can be received in the month of April each year, from the Town-Clerk, Glasgow, with whom applications must be lodged.

Bursars—Edith Louise Maclean, 1900; Christina M. Maclean, 1903; Ewen Maclean, 1903; William A. Maclean, 1903.

MAITLAND CLUB BURSARY.—In 1888 Dr. W. H. Hill and Mr. J. Wyllie Guild, the then surviving members of Council of the Maitland Club, disposed of the remainder of the stock of the Maitland Club publications, and in pursuance of resolutions passed at meetings of the Council held on 3rd and 17th August, 1870, handed over the proceeds (£140) to the Senate for Bursary purposes. The free income is to be annually bestowed without any competitive examination on such student as the Senate may consider deserving. No appointment will be made until the free annual income amounts to £5.

MARSHALL BURSARIES (*One in Theology and One in Medicine*).—Mrs. Barbara Lauder or Marshall, relict of Alexander Marshall, wholesale stationer, Bell Street, Glasgow, by her Will dated 8th December, 1874, bequeathed to the Senatus of Glasgow University the sum of £1,000, under deduction of legacy duty, to found two Bursaries of equal value, one in Divinity and the other in Medicine. Tenable for four years. Preference to the name of Marshall, but provided "that the Principal and the Professors shall nominate and appoint such students only to the said Bursaries as they shall find, on such examination as they may appoint, to be properly qualified for entering upon the study of Divinity and Medicine at the said University." Present value. £16 per annum to each Bursar.

Bursar in Medicine—¹William L. Kirkwood, 1900.

Bursar in Theology—²Neil MacPhail, 1901.

MARSHALL TRUST BURSARIES (*Arts*).—Under scheme 198, section 29, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 17th March, 1888, the Governors of the Marshall Trust are instructed to apply (1) a sum not exceeding £300 per annum in providing University Bursaries. These Bursaries are awarded by competitive examination among pupils of either sex who have held free scholarships or school bursaries under the scheme, and pupils of either sex who are resident and attending public or State-aided schools in Lanarkshire or Stirlingshire, whose parents or guardians are of the class specified in section 25 of the scheme. The Governors may apply (2) a further

¹ Vacant through lapse of time.

² Bursar's course finished.

sum of £300 per annum in providing similar Bursaries to be awarded solely to pupils who have held free scholarships under the scheme, who shall have competed for but failed to obtain any of the first mentioned Bursaries, but on condition that such free scholars shall pass the examination prescribed by the Governors. Each Bursary is £30 per annum, and is tenable for not more than five years. Forms of application may be obtained from the Secretary of the Trust—William Mitchell, LL.D., 134 Wellington Street, Glasgow—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for students of the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary in the general competition. Under (1) there are two vacancies, and under (2) there are also two vacancies.

Bursars—¹John McLean, 1899; ¹John McBryde, 1899; Edgar Barnes, 1900; Thomas L. Douglas, 1900; Neil McArthur, 1900; Margarette C. Paterson, 1900; James Ballantyne, 1901; George D. C. Stokes, 1901; John J. Dempster, 1901; Thomas Beaumont, 1901; Margaret O. Taylor (1902), 1903; Grace Oliphant, 1902; Neil McCaig, 1902; David Taylor, 1902; Thomas Hyslop, 1903; William Oswald, 1903; Donald J. Clark, 1903; Janet S. McCulloch, 1903.

MENZIES BURSARIES (*1878*).—The late Mr. James Menzies, of Glasgow, by his Will, dated 3rd November, 1837, left a sum of money to establish four Bursaries at either of the Universities of Edinburgh, Glasgow, or St. Andrews, tenable for four years, one to be given each year. The value of each Bursary is £45 per annum, but varies at the discretion of the Patrons. The Patrons are Sir Robert Menzies, Bart., of Menzies, and the Parish ministers of Dull, Weem, and Fortingall. In the first place, the kindred of the Testator; secondly, persons of the name of Menzies; thirdly, those born on the Menzies estates, will be preferred—provided always that they shall be found properly qualified by previous education; and failing these, the Patrons can present such as shall be found best qualified after due examination. The following are the subjects of examination:—*Latin*—Translation, (1) English into Latin; (2) Latin into English, with grammatical questions and exercises. *Greek*—Translation, Greek into English, with grammatical questions and exercises. *English*—(1) The growth, structure, and grammar of the language; (2) The History of English Literature; (3) A short essay on a prescribed subject. *Mathematics*—(1) Arithmetic, general; (2) Algebra, up to and including Quadratic Equations; (3) Geometry, Euclid,

¹ Vacant through lapse of time.

the first six books, and the first twenty-one propositions of the eleventh book, with deductions; (4) Trigonometry, up to and including the solution of triangles. Bursars to attend in some one of the above Universities the classes in their regular order for the M.A. Degree. Candidates are requested to send their names to Mr. Thomas Yool, The Menzies Estates Office, Aberfeldy, on or before 18th September. (One vacancy.)

Bursars—¹J. C. H. Macnair, 1900; James Menzies, 1901; Alexander MacIntosh, 1902; John S. Menzies, (at Edinburgh University), 1903.

MERCHANTS' HOUSE BURSARIES (*One in Arts, One in Law, and Two in Medicine*).—Founded in 1879 by the Merchants' House of Glasgow. The Bursaries are of the annual value of £25 each, and are four in number—viz., two in Medicine, one in Arts, which may also be held in Engineering and Mechanics, and one in Law, tenable by students attending the requisite classes in the above Faculties, with a preference to the sons of matriculated members of the Merchants' House, and such others as the Lord Dean and Directors may deem deserving. 1. The Bursaries in Medicine are tenable for four years. Candidates must be entering on their first winter session of attendance on the ordinary curriculum for Medical Students. 2. The Bursary in Arts, or in Engineering and Mechanics, is tenable for four years. Candidates must be entering on their first session of study, and must attend each session two at least of the classes in the Arts curriculum, including, at the option of the candidate, the class of Civil Engineering and Mechanics. 3. The Bursary in Law is tenable for three years. Candidates must be entering on their first session of attendance on the classes in the Faculty of Law, and must give regular attendance for the three years on classes in that Faculty. The subjects of examination for the Bursaries in Medicine are the subjects of the Medical Preliminary Examination, and for the Bursaries in Arts and Law are those prescribed for the General Bursary Competition, special importance being given in the examination for the Arts Bursary to the subject of Mathematics. When a vacancy occurs, applications should be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September.

Bursar in Arts—Murray Macgregor, 1902.

Bursar in Law—²George Stewart, M.A., 1902.

Bursars in Medicine—¹Alexander C. Russell, 1900; Walter Gilmour, 1903.

METCALFE BURSARIES (*Science*).—Founded by the late Miss Sarah Metcalfe, Glasgow, who, by her Deed of Settlement and Codicils, dated respectively 8th August, 30th September, and 7th October, 1853,

¹ Vacant through lapse of time.

² Appointed to a John Clark (Mile-end) Scholarship.

bequeathed, subject to the liferent of her brother, Mr. William Metcalfe, certain properties in Glasgow, "for encouraging poor students in prosecuting the studies of Mathematics, Practical Astronomy, Chemistry, and Civil Engineering." Mr. Metcalfe died on 25th January, 1869, and by resolution of date 14th April, 1870, the Senate instituted, besides a Metcalfe Fellowship of £100 annual value (for which see Index), at least two Metcalfe Bursaries or Scholarships, each of the annual value of £25, and tenable for two years, subject to the condition that the scholar attend the four classes of Civil Engineering, Senior Mathematics, Practical Astronomy and Chemistry; two at least of these classes to be taken each year. The scholars to be appointed by examination in Pure Mathematics, including the elements of Plane Trigonometry, of Mechanics, and of Theoretical Astronomy, from among matriculated students entering the Intermediate Honours class of Mathematics, or the class of Chemistry. (Two vacancies.)

Bursars—John F. Tinto, 1902; James M. Frew, 1903; ¹John F. Lang, 1903.

MITCHELL (See Lochhead and Mitchell, p. 317).

MONTEITH BURSARIES (*Arts*).—Founded in 1869 by Mr. James Monteith of 38 Duke Street, St. James's, London. Three in number, each of the annual value of about £14, and tenable for three years. They are open for competition to all matriculated students of the Faculty of Arts, being natives of Scotland, and sons of Scottish parents, and may be held along with another Bursary. The examination to be in French and German in alternate years. Occasionally an extra Bursary will be given to the second-best candidate, of the same value as the others, but tenable only for one year. At the commencement of session 1904-5 a regular three years' Bursary will be competed for, the examination being in German.

Bursars—²John D. Anderson, 1901; William Scott (German), 1902; James McArthur (French), 1903.

JOHN MONTEITH BURSARIES (*Medicine*).—Founded in 1884 by Mrs. Helen Monteith, Greenbank, Dowanhill Gardens, Glasgow, in memory of her husband, the late John Monteith. Mrs. Monteith assigned the sum of £1,000 to Dr. John Gray McKendrick, Professor of the Institutes of Medicine, Dr. James Duncan McLaren, Fellow of the Faculty of Physicians and Surgeons in Glasgow, the late James Graham, LL.D., writer, Glasgow, and Robert Monteith, her adopted son, as trustees, in the first instance, for the administration of the fund. The annual income after payment of the expenses of administration is to be awarded as two Bursaries to students who have attended the first and second sessions of their professional studies in

¹ Vacant through resignation.

² Vacant through lapse of time.

the University of Glasgow with a view to Graduation in Medicine in that University. The Bursaries are tenable for two years. One Bursary is awarded annually in the month of November, and is given to the candidate who gains the highest number of marks in the subjects of Anatomy and Physiology at the Professional Examinations in these subjects held during the previous year (i.e. the April and October preceding said month of November). The founder has directed that it be represented to the holders of the Bursaries that they should feel themselves in honour bound after graduation to render professional assistance to the poor as much as may be in their power.

Bursary.—¹ Hugh H. Fulton, 1902; John S. Dunn, M.A., 1903.

MORGAN BURSARIES (Arts and Theology).—Mr. John Morgan, West India Merchant, who died at Springfield House, Bishopbriggs, on 4th May, 1824, in his Trust Disposition and Settlement directed the Merchants' House to pay over half-yearly to the Presbytery of Glasgow one third of the net revenue of his estate to be applied in providing Bursaries for students in the University of Glasgow intending to become ministers of the Church of Scotland, one third to students in Divinity and two thirds to students in Arts. The students in Arts must be under twenty years of age, and must have passed the Preliminary Examination. The appointments are made for one year only, but may be renewed from year to year for one or more years. No Morgan Bursary shall exceed £20 a year. The holder of another Bursary of £20 or upwards cannot be appointed to a Morgan Bursary, but the holder of a Bursary of less than £20 may be appointed to a Morgan Bursary of such value that the two Bursaries together shall not exceed £20. Further particulars and schedules to be filled up by applicants may be obtained from the Presbytery Clerk.

MUIR BURSARIES (Two in Arts or Science, Two in Science, and One in Theology).—Founded in 1888, in terms of the Trust Disposition and Settlement and Codicil thereto of the late Mr. Matthew A. Muir, merchant in Glasgow, who bequeathed to the Senatus Academicus of Glasgow University, free of legacy duty, the sum of £1000 for providing a Bursary in connection with the Chair of Divinity, to be awarded to a student of Divinity during the last three years of his curriculum; a sum of £1000 for providing two Bursaries of equal amount in connection with the Chair of Mathematics, to be awarded to advanced students in Mathematics, the period of tenure to be fixed by the Senate; and a further sum of £1000 for providing two Bursaries of equal amount in connection with the Chair of Civil Engineering and Mechanics, to be awarded to advanced students of Engineering and Mechanics, the

¹ Vacant through lapse of time.

period of tenure to be fixed by the Senate. Any of the Muir Bursaries in Mathematics and Civil Engineering may be held along with another Bursary.

The following rules and regulations have, in accordance with the provisions of the Deed, been sanctioned by Mr. Muir's trustees, and are to be observed in all time coming :—

1. *Muir Bursary in Divinity*.—Candidates must be entering on their first session in Theology in the University, and the appointment to the Bursary shall be determined by the result of the annual competitive examination for Bursaries in Theology. The competition shall be open to candidates holding a Degree in Arts in any Scottish University, or who have passed their examinations in four subjects taken out of at least two departments for graduation in Arts. The Bursary shall be tenable for three years, but the second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed the examinations for the Degree of Bachelor of Divinity.

2. *Muir Bursaries in Mathematics*.—Two in number, of which the Junior Bursary shall be tenable for two years, and the Senior Bursary for one year, the former being of half the annual value of the latter. The appointment shall be determined by the proficiency shown by the candidates in the earlier part of their Mathematical course, and the successful candidates shall prosecute the study of the Higher Mathematics during their tenure of the Bursaries. No candidate shall be allowed to hold both Bursaries at the same time. Should the Junior Bursary be resigned by the Bursar at the end of his first year of tenure, the Senate may make an appointment for the remainder of the period.

3. *Muir Bursaries in Civil Engineering and Mechanics*.—Two in number, and of equal value. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Engineering course. The period of tenure for each Bursary shall be the session of attendance on the Senior Class of Civil Engineering and Mechanics (Class IV.). Should a vacancy occur by reason of non-attendance of a selected candidate, the Senate may make an appointment for the remainder of the period. No candidate shall be allowed to hold both Bursaries.

4. The Senate reserve the right to withhold the Bursary in any case in which a satisfactory standard has not been attained by any of the competitors.

5. Arrangements for carrying out these rules and regulations shall from time to time be made by the Senate, and notice thereof shall be published in the *University Calendar*.

Arrangements for Session 1904-5.—*Muir Bursaries in Mathematics*.—The appointment to the Junior Bursary, tenable during

sessions 1905-6, 1906-7, shall be determined by the results of the written examinations passed in the course of the session 1904-5 by the public students of the Ordinary Class of Mathematics. The successful candidate shall, during session 1905-6, attend the Intermediate Honours Class, and during session 1906-7 the Advanced Honours Class of Mathematics. The appointment to the Senior Bursary, tenable during session 1905-6, shall be determined by the results of the written examinations passed in the course of the session 1904-5 by the public students of the Intermediate Honours Class. The successful candidate shall, during 1905-6, attend the Advanced Honours Mathematical class.

Muir Bursaries in Civil Engineering and Mechanics.—Candidates for the Bursaries tenable during session 1905-6 must be (a) students attending during session 1904-5 Engineering Class II. or the Class of Electrical Engineering, who are also attending or have in a previous session attended the Junior or the Senior Class of Engineering Drawing and Calculations, or (b) students attending during session 1904-5 the Junior or the Senior Class of Engineering Drawing and Calculations, who have in a previous session attended the Engineering Class II. or Class III. or Electrical Engineering. The appointment shall be made by consideration of merit shown during attendance on, and by examination in the subjects of, those classes. The successful candidates shall, during session 1905-6, attend the Senior Class of Civil Engineering and Mechanics (Class IV.).

Bursars in Mathematics.—Junior Bursars for session 1904-5, Oswald J. Gardner and Margaret B. Moir, 1904; Junior Bursar for sessions 1904-5, 1905-6, John H. Maxwell, 1904; Senior Bursar for session 1904-5, Leonard J. Russell, 1904.

Bursars in Civil Engineering and Mechanics for session 1904-5—John C. Dunlop and Alexander Hutchison, 1904.

Bursar in Theology.—Robert C. Thomson, M.A., 1903.

WILLIAM MUIR DIVINITY BURSARIES (*Theology*).—Established in 1886 by the Governors of the Glasgow General Educational Endowments Board, under Section 35 of their Scheme. The Bursaries are two in number, each of £25 annual value. Candidates must have passed the examination of the Examining Board for entrance to the Divinity Hall of the University, and must lodge applications with Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, on or before the 11th day of October. The Bursaries are awarded in accordance with the results of the competition for Bursaries in Theology, and are tenable for two years.

Bursar.—¹James Young, B.A., 1902; Angus J. M'Vicar, M.A. 1903.

¹ Vacant through lapse of time.

NOTMAN BURSARY (*Theology*).—By deed of Settlement dated 15th August, 1876, Mrs. Margaret Adam Notman or Napier of Hillhead, Glasgow, widow of Mr. William Napier, directed her executors to pay over to the Principal and Professors of the Glasgow College, the sum of £500 sterling for the purpose of founding a Bursary in the College, to be called the Notman Bursary, in memory of her father and brother. The Bursar to be a student of Divinity, who shall appear in public examination to be best qualified and deserving. Present value, £18 per annum.

Bursar—Dugald McCallum, 1903.

JAMES PATERSON BURSARY (*Arts*).—Founded in 1885 in commemoration of the completion, in 1879, of the fiftieth year of the existence of Adelaide Place Baptist Church, Glasgow, and of the Pastorate thereof of Dr. James Paterson during the same period. The sum subscribed for the purpose, amounting with interest to £619, was assigned and conveyed to the Senate in trust to be applied in all time coming to provide a Bursary in the Faculty of Arts to be called the James Paterson Bursary. The Bursary is tenable for four years, and is open to competition to any student of the first year in Arts who is a member of a Baptist Church, and who is entering upon his studies with a view to the ministry in the Baptist denomination. The Bursar during his tenure of the Bursary must be a member of Adelaide Place Baptist Church or of some other Baptist Church in Glasgow or neighbourhood. The Bursar must graduate in Arts, and before payment of the second moiety of the last year's Bursary must produce evidence that he has taken the degree, or that he has passed all the examinations necessary for graduation. On the Bursary falling vacant otherwise than by lapse of time, the Senate may appoint for the remainder of the term, or for the full period after competition. Before payment of the second moiety in each year the Bursar must produce a certificate of fitness for the ministry from a Committee of Adelaide Place Baptist Church, from the Baptist Union of Scotland, or some recognized Educational Institution of the Baptist Body. An appointment may be made in 1904.

Bursar—Thomas Stewart, 1900.

JAMES ALEXANDER PATERSON BURSARIES (*Arts and Medicine*).—Founded in 1892, under the Trust Disposition and Settlement of James Alexander Paterson (for many years a member of Shamrock Street United Presbyterian Church), who died at Glasgow on 31st January, 1889.

The Bursaries in Arts are tenable for three years. They are open to competition to students entering upon the first or second year of their attendance at the University, who purpose studying for the

ministry in connection with the United Presbyterian Church, and who intend to qualify for and take, in the University of Glasgow, the degree of M.A. Each candidate before the competition must lodge with the Clerk of Senate, (1) a written declaration of his intention to comply with and observe these conditions, and (2) a certificate from the Chairman or Clerk of the Theological Committee of the United Presbyterian Church, bearing that the Candidate is recognized by that Church as an accepted student pursuing his studies with a view to the ministry therein. In October, 1904, three Bursaries of £35, £25, and £20 respectively will be offered for competition. The Examination is in Hebrew (Book of Ruth) and Greek (Acts of the Apostles).

The Bursaries in Medicine are tenable for four years. They are open to competition to students entering upon the first or second year of their medical curriculum at the University of Glasgow, who intend to qualify for and take, in the University of Glasgow, the degree of M.B. Each candidate must before the competition deliver to the Clerk of Senate a written declaration of such intention. The subjects of examination are Mathematics and Natural Philosophy, and the papers will be on the same standard as the papers in Mathematics and Dynamics for the Bursary competition in Arts. Two Bursaries of £35 and £25 respectively will be offered to competition in October, 1904.

It shall be competent for the holders of these Bursaries, whether in Arts or in Medicine, to hold any other Bursary or Scholarship in this University, if the Regulations of that other Bursary or Scholarship permit.

Bursars in Arts—¹James W. More (£35), 1901; ¹John Baillie (£25), 1901; ¹George J. Jeffrey (£20), 1901; John Reid (£35), 1902; Robert M'Kinlay (£25), 1902; William I. H. Marr (£20), 1902; Bruce B. Blackwood (£35), 1903; James N. Alexander (£25), 1903.

Bursars in Medicine—¹Robert B. Carslaw, M.A. (£35), 1900; ¹John L. Stewart, M.A. (£25), 1900; ¹David J. M'Leish (£20), 1900; ¹Peter Lowe, M.A., B.Sc. (£20), 1900; Thomas Barbour (£35), 1901; Peter Mitchell, M.A. (£25), 1901; Thomas Miller (£35), 1902; Hugo G. Robertson (£25), 1902; Robert M. Morison (£35), 1903; Frank N. Marsh (£25), 1903.

PATRICK BURSARIES (Arts).—These Bursaries were founded in 1860 by Mr. William Patrick of Roughwood, W.S., and were originally two in number, the one consisting of the free annual proceeds of a sum of £2,000 of consolidated stock of the Glasgow and South-Western Railway, the other of the free annual proceeds of £1,000 of the same stock. They were tenable for two years, but might be continued for other two. By Ordinance No. 85 of the

¹ Vacant through lapse of time.

Universities Commission (1889) the number of Bursaries was increased to three, all equal in value, and tenable for four years. The present annual value of each is £32. If a Bursar graduate at the end of three years he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects also the provisions of Ordinance No. 57 apply to the Patrick Bursaries. Candidates must have gone through a course of education at some one of the Public Schools in the County of Renfrew, where a regular course of Classical Study is pursued and must be in circumstances to render it desirable that they should have assistance in prosecuting their studies at the University. The Rector or Head Teacher of such Public School to grant a certificate to any number, not exceeding four of his best scholars, who shall be entitled to present themselves to the Principal and Professors as candidates for the Bursaries. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office).

Bursars—¹ Adam Patrick, 1900; Charles G. G. Helme, 1901; Thomas N. McIlravey, 1903.

PENDER MEMORIAL BURSARY.—Founded in 1898 by a Committee of which the Marquis of Tweeddale was Chairman to commemorate the leading part taken by the late Sir John Pender, G.C.M.G., in the establishment and development of Submarine Telegraphy and in its extension throughout the world. The fund consists of about £1,650, and the annual value is about £52. The following regulations were made by the Senate after communication with the Glasgow and West of Scotland Technical College and the Committee:—1. That the holding of a Diploma in Electrical Engineering of the Glasgow and West of Scotland Technical College be a condition of appointment to the Bursary. 2. That the appointment to the Bursary be made by the authorities of the Glasgow and West of Scotland Technical College. 3. That the Bursary be tenable for one year. 4. That the Bursar be required during his tenure to attend in the University three full courses or their equivalent from among those that would constitute in his case a qualifying curriculum of study for the Degree of B.Sc. in Engineering. 5. That, in the event of there being no candidate deemed worthy of appointment in any year, the interest be held over to provide a second Bursary in a subsequent year.

Bursars—¹ Robert D. Archibald, 1903; Frederick H. Downie, 1904.

GLASGOW PERTHSHIRE SOCIETY'S BURSARY (*Arts*).—Founded by the Glasgow Perthshire Society in 1873. Value, £25, and tenable

¹ Vacant through lapse of time.

for three years. Open to competition to natives and sons of natives of the county of Perth, and also to sons of persons who are *bonâ fide* residents in that county, and have resided in it for not less than three years at the time of the competition. Candidates must be entering on their first year of attendance as students in the University of Glasgow, and the holder of the Bursary will be required to complete attendance on at least two of the classes in the curriculum of Arts in each session. When a vacancy occurs names of candidates should be sent to Messrs. George Gray and Son, County Buildings, Glasgow, Secretaries of the Society, not later than the twenty-fifth day of August preceding the competition.

Bursar—James Cunnison, 1903.

POLLOCK BURSARIES (Arts).—Founded in 1878, in terms of the Trust Disposition and Settlement of the Rev. Alex. Pollock, senior minister of the Free South Church, Paisley, who bequeathed £3,000, free of legacy duty, for that purpose. The Bursaries are at present each of the annual value of £37, and are designed to assist young men entering the University of Glasgow, whose circumstances are such as to render it desirable that they should have assistance in prosecuting their studies. The patrons are the Principal and Professors in the Faculty of Arts. Each candidate must lodge along with his application a letter from the Rector, Headmaster, or Classical Teacher of one of the Public Schools or Public Academies within the parliamentary boundaries of the burgh of Paisley, where a regular course of Classical study is pursued, certifying that he has completed his course of education at such school or academy. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office). Should no such qualified candidates present themselves, or should the otherwise qualified candidates fail to reach a satisfactory standard in the Bursary Examination, the Bursary or Bursaries vacant for the time being shall be open to all the candidates in the ordinary Bursary Competition. The Bursaries are three in number, and are tenable for three years, during which period the Bursars must be students in the Faculty of Arts. The second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed the examinations in four subjects taken out of at least two departments for graduation in Arts.

Bursars—¹Henry Lambie, 1901; John H. Maxwell, 1902; William McEwan, 1903.

T. and V. PRATT BURSARIES (Any Faculty).—The late Mr. Thomas Pratt, who resided at Castleyett, near Lanark, by his Trust Disposition and Settlement, dated 22nd December, 1877, directed his Trustees, as soon after his death as convenient for them, to set apart and invest in name of themselves and such other Trustees as

¹ Vacant through lapse of time.

they might deem suitable, a sum to yield an annual income of £40, for the purpose of establishing two Bursaries of £20 each, to be called the T. and V. Pratt Bursaries, to assist in maintaining and educating two students in the University of Glasgow or Edinburgh. The necessary funds have now been set aside and invested in name of Trustees for this purpose. The Bursaries are open to sons and daughters of working men residing in or belonging to the United Parishes of Wiston and Roberton, and the Parish of Lamington. His Majesty's Inspector of Schools for the district is to name the candidates found after examination to be best qualified and most deserving of the Bursaries, and the examination which, with the concurrence of the Trustees, he at present prescribes is the General Bursary Competition Examination in Arts at Glasgow University. The Bursaries are tenable for four years, or such shorter time as the Bursar may remain at the University, unless the Trustees are dissatisfied with the Bursar's conduct or diligence. When a vacancy occurs, applications should be lodged with the Trustees' Agents, Messrs. Fyfe, MacLean & Co., Writers, 115 St. Vincent Street, on or before 1st September. (Bursaries both vacant.)

RAINY BURSARIES (*Medicine*).—In 1872, Dr. Harry Rainy, Emeritus Professor of Medical Jurisprudence in this University, made over to the Senate the sum of £1,000 for the institution of two Bursaries in the Faculty of Medicine, and a further sum of £500 to be invested as a supplementary or augmentation fund. The interest of the Bursary Fund is to be divided annually between the two Bursars; and the interest of the supplementary fund is to be employed towards defraying the expenses of administration, and bringing up, when necessary, the annual salaries of the Bursars to £20 each, and increasing the supplementary fund. Should this fund accumulate to £1,000, one half of it is then to be added to the Bursary fund, the interest of which shall be divided as before between the two Bursars. If by this process of augmentation, which is to be repeated as often as the supplementary fund amounts to £1,000, the Bursary fund shall at length yield £60 per annum to each Bursar, the Senate may continue the same process, or constitute additional Bursaries on the principle explained above, the original Bursaries remaining of the value to which they have been raised by augmentation. The augmentation fund is not at any time to be reduced below £500.

The successful candidate may hold his Bursary for two years, namely, during his fourth and fifth years of study in the University of Glasgow. A vacancy occasioned by death, irregular attendance, or misconduct, is not to be filled up till the usual term at which the competition for that Bursary would have fallen due, and accumulations from this source are to be added to the supplementary fund.

A Rainy Bursary will be awarded in November, 1904, to the qualified candidate who, not being the holder of a bursary of equal or greater value, shall be found to have passed in the year 1904 in Anatomy and Physiology of the second Professional examination, and whose aggregate of marks in these subjects and in Chemistry, Botany and Zoology of the first Professional examination, is the highest.

Bursars—¹ William B. M. Martin, 1902 ; William Rolland, 1903.

RAMSAY WALKER BURSARIES (*Arts*).—Two in number, founded in 1879, under the Trust Disposition and Settlement of Miss Ramsay Walker, Crosshill, who bequeathed £700, reduced by legacy duty to £630, for educating two students with a view to the ministry of the Established Church of Scotland. Preference to kindred of the founder, whom failing, to students of the name of Walker, whom failing, to natives of Glasgow, whom failing, the Bursaries will be thrown open to public competition. Candidates must be qualified by their previous education for entering the University. Tenable for four years. (Both vacant.)

Bursar—¹ John A. Swan, 1900.

ROSS BURSARY.—(See Hyndford and Ross, p. 311.)

JOHN ROSS, JUNIOR, BURSARY (*Theology*).—Founded in 1880 by Mrs. Ross, widow of Mr. John Ross, junior, merchant in Glasgow, in memory of her husband. Patrons—The Senate of the University. The Bursary Fund consists of the capital sum of £1,000, set aside by Mrs. Ross for that purpose, and the present annual value is £32. The Bursary is tenable for three years by a student of Divinity in the regular course of study for the degree of Bachelor of Divinity with a view of becoming a clergyman of the Established Church of Scotland. Candidates must be entering on the first session of their study in Theology in the University, and the award shall be determined by the result of the annual competitive examination for Bursaries in Theology. In cases of equality in the competition there is a preference to the student who may be thought to stand most in need of help to carry on his theological studies, or to one who is a native of Ayrshire. The second moiety of the third year's Bursary shall not be paid to any Bursar unless and until he shall have passed all the examinations required for the degree of B.D. In the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

Bursar—Robert Alexander, M.A., 1902.

SANDERS BURSARY.—(See Boyd and Sanders Bursary, p. 287.)

(SIR WALTER) SCOTT BURSARIES (*Arts*).—The centenary of the birth of Sir Walter Scott was celebrated in Glasgow in 1871, and

¹ Vacant through lapse of time.

in conformity with a suggestion made by Lord Stanley (Earl of Derby), then Lord Rector of the University, the committee who had charge of the arrangements resolved to raise by public subscription a fund for the benefit of distinguished students, and to associate it with Scott's name. The amount subscribed was £3,500, and accordingly two Bursaries, along with the Scott Scholarship, were founded in 1874. The fund is administered by trustees, two of whom are elected by the *Senatus*, two by the Merchants' House, one by the Faculty of Physicians and Surgeons, one by the Faculty of Procurators, and one being an Assessor of the Council in the University Court, appointed by the four Assessors or a majority of them, in accordance with the provisions of Ordinance No. 91 of the Universities Commission (1889). The Bursaries are now three in number, each of the annual value of £25, and tenable for four years. They are open to free competition, under the same regulations as the competition Bursaries in the University.

Bursar—George R. Robertson, 1903.

SHEARER BURSARIES (*Any Faculty*).—Founded in the year 1887, by Archibald Shearer of Boag, who resided in Beith. By Deed of Mortification executed by Mr. Shearer dated 29th April, 1887, he conveyed his lands of Boag, in the parish of Kilbirnie, to trustees for the foundation and endowment of three Bursaries for the advancement of the higher education of the young men of his native parish of Dalry, in the county of Ayr. The Deed provides that the Bursaries shall be open to applicants between the ages of fourteen and twenty-four, who are the sons of parents or of a surviving parent *bona fide* resident for a period of not less than two years immediately preceding the date of application in the parish of Dalry, or to applicants who, for a period of not less than the last two years of their school curriculum, have received their education in the schools within the said parish, to enable the Bursars to pursue their education as students at the University in one or other of the Faculties. Students who have enjoyed a Bursary during their Arts course are eligible for a second Bursary in another Faculty. Applicants to undergo such examination as the trustees may from time to time appoint. Each Bursary to be one-third of free income from the lands of Boag, but not exceeding the annual sum of £30, and to be tenable for three years. Further information will be afforded by the Agents of the Trustees, Messrs. J. & J. M'Cosh, writers, Dalry.

Bursar—John M'Cartney (three years), 1903.

SHIPWRIGHTS' COMPANY BURSARY.—The Fishmongers Company of London has placed the sum of £50 per annum at the disposal of the Educational Trust Fund Committee of the Shipwrights' Company for a period of three years that a Scholarship or Bursary may be

given to a deserving student of Naval Architecture in this University. Appointment to the Bursary rests with the Educational Trust Fund Committee, and when a vacancy occurs the Senate is invited to nominate a promising and deserving student.

Bursar—Richard J. L. Ward, 1903.

SIMSON BURSARY (*Arts or Divinity*).—This bursary, of the annual value of about £18, was founded in 1869 by James Simson. The bursar must be a native of Dunbar, and must be attending any Scottish University in the prospect of becoming a minister of the Church of Scotland or of going abroad as a missionary. It is tenable for one or more years, not exceeding three. Candidates must apply to the Session Clerk, Dunbar Parish Church.

SMITH (CRUTHERLAND) BURSARY (*Any Faculty*).—In 1849 Dr John Smith of Crutherland founded two bursaries, which were not restricted to any particular Faculty. Patrons—the Directors of the Incorporated Company of Stationers. Sons of members of the Company are preferred, then sons of persons connected with any of the trades included in their charter, whom failing, such other students as may be approved of by the patrons. The value of each was £9 per annum, and they were tenable for one or more years at the option of the patrons. Ordinance No. 77, issued on 15th February, 1895, provides that the two bursaries shall hereafter be conjoined into one, and that the bursary shall be tenable for four years. If a bursar in Arts graduate at the end of three years, he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. If a bursar in Divinity graduate at the end of three years he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study in Divinity approved by the Senate. Applications to be made to Mr. R. Brodie, 77 St. Vincent Street Glasgow.

Bursar—Robert Cuthbertson, 1902.

STEVENSON OF DALRY BURSARIES (*Arts*).—The Rev. Robert Stevenson, D.D., minister of the Parish of Dalry, Ayrshire, who died on 11th September, 1890, by his Trust Disposition and Settlement dated 28th July, 1890, directed his Trustees to pay over to the University Court the sum of £2,000, free of legacy duty, for the foundation of two Bursaries in Arts. They are open for competition to students entering on the first or second session of attendance in the Faculty of Arts, who are prosecuting their studies with a view to the ministry of the Church of Scotland, with a preference in the first place to natives of the parish of Dalry in Ayrshire, and

in the second place to natives of the parishes of Bannockburn or St. Ninians in Stirlingshire. The Bursaries, which are each of the annual value of £33, are tenable for four years.

Bursars—¹ Archibald A. Bowman, 1900 ; William D. MacGill, 1902.

ANDREW AND BETHIA STEWART BURSARIES (*Arts and Law or Medicine*).—Miss Bethia Stewart, of Moss-side Park, Crossmyloof, who died on 10 April, 1902, directed her Trustees to give effect to the wishes of her brother Andrew Stewart, who predeceased her, by applying the income of the residue of her estate to the payment of bursaries for students in the University of Glasgow.

The Bursaries in Arts are each of the annual value of £20, and are tenable for four years. Candidates must have qualified for the Arts Course either by gaining a Group Leaving Certificate of the Scotch Education Department or by passing the University Preliminary Examination in Arts, and must undergo a written examination, comprising an English Essay, and papers in *either* French *or* German *or* Italian, and also an oral examination in the foreign language selected by the candidate for the written competition.

The Bursaries in Law or Medicine are each of the annual value of £50, and are tenable for three years. Candidates must be Masters of Arts of the University of Glasgow, and must undergo a written examination, comprising an English Essay, and papers in not more than two of the following subjects, *viz.*, Latin, Greek, French, German, Mathematics, and also an oral examination in the subjects selected by the candidate for the written competition.

Five Bursaries in Arts and two in Law or Medicine will be open for competition in October, 1904. The names of candidates should be entered not later than 1st September, 1904, with Messrs. John Steuart and Gillies, Writers, 204 West George Street, Glasgow, from whom further information and Forms of Application may be obtained.

Bursars in Arts—Oswald J. Gardner, 1903 ; Elizabeth F. Stevenson, 1903.

Bursar in Law—James L. Mackenzie, 1903.

Bursar in Medicine—John S. Clark, M.A., 1903.

STEWART BURSARIES (*Arts*).—These Bursaries, three in number, founded in 1809 by the Rev. James Stewart, are in the gift of the Senate. They commence with the Humanity or the Greek Class, and may be held during the Gown Course. Value, £15 per annum each. The names Stewart and Simpson were preferred, but this preference was cancelled by Ordinance No. 57 of the Universities Commission (1889). In case of a vacancy, a student of the same

¹ Vacant through lapse of time.

standing is appointed. The Senate, acting under Section xiii. of the said Ordinance, have resolved to award one of the Stewart Bursaries in respect of exceptional distinction in English, to a student of the first year who, having passed the Arts Preliminary, has gained the highest marks in English in the Bursary Examination and has not obtained a bursary for general excellence.

Bursars—¹Alexander Murphy, 1900; ¹Clark Nicholson, 1900; George Bell (English), 1903.

STILLIE BURSARY IN MUSIC.—This Bursary was founded by Mrs. Thomas Stillie in 1885, the Trustees being the Executive Council of Queen Margaret College, and their successors in office. The Trustees were to apply the annual proceeds of the investment of £125 in providing one Bursary, to be granted yearly to a student of Music, as a reward for proficiency in Music, and an encouragement to further study. The Trustees were empowered to make such regulations as they should see fit from time to time for testing the merits of the candidates, and also for prescribing the age of candidates and the course of study to be pursued in connection with Queen Margaret College or otherwise, which the Trustees might desiderate as a condition of awarding the Bursary. The University Court, having taken over Queen Margaret College, are the successors in office of the Executive Council of Queen Margaret College in respect of the Stillie Bursary Fund, which in January, 1895, amounted to £160. The following regulations have been adopted by the Court:—
1. The Bursary shall be awarded in connection with the examinations in Music conducted in Glasgow by the Associated Board of the Royal Academy of Music and the Royal College of Music.
2. The Bursary shall be awarded by the Senate on a report by the Examiners of the said Board.
3. Only candidates for the Senior Grade Examination shall be eligible, and the Bursary shall be awarded to the candidate examined in Glasgow who shall obtain the highest number of marks in that examination.
4. The Bursary shall not be awarded if the candidate with the highest number of marks has not obtained honours; and in that case the proceeds shall be added to the capital fund.

Bursar—Frances Black, 1904.

DR. STRANG BURSARIES (*Science*).—Mrs. Machen of FernieCraig, Skelmorlie, who died recently, left funds for the foundation of four Bursaries, each of the annual value of £20, to be instituted in connection with the University of Glasgow, in memory of her brother, the late Dr. John Strang, City Chamberlain of Glasgow from 1834 to 1863. The Trustees under their powers have meanwhile agreed that these Bursaries should be tenable by students of Engineering Science in the University of Glasgow. Each Bursary is tenable for three years. The Bursaries shall be awarded on the results of the Science Preliminary Examination, and no candidate shall be appointed to a

¹ Vacant through lapse of time.

Bursary unless he passes the whole preliminary examination. Each Bursar shall be required to attend a course qualifying him for graduation in Engineering Science on the side of Engineering.

The Bursaries shall be payable by equal moieties in the month of January and at the close of the winter session, but the second moiety of the second year's Bursary shall not be paid until the student has passed the first Science Examination for B.Sc. in Engineering Science, except in special circumstances. No student shall be entitled to hold a Dr. Strang Bursary who is receiving any other Bursary.

In each of the years in which two appointments fall to be made, the Trustees, in appointing to the second Bursary, will take into account, not only the results of the examination, but also, and specially, other circumstances (financial and otherwise) affecting the candidates.

Further particulars may be obtained from Professor Barr, D.Sc., Engineering Department, University of Glasgow, or from Messrs. Kerr & Barrie, Solicitors, 149 St. Vincent Street. (Two vacancies.)

Bursars—Thomas Muirhead, 1902 ; Edward A. Smith, 1903.

STRUTHERS BURSARY.—(See Gilhagie and Struthers Bursary, p. 305.)

TAYLOR BURSARIES (*Ang Faculty*).—Two in number, founded by Mr. James Taylor, writer in Glasgow, who by Trust Disposition and Settlement of date 30th June, 1857, bequeathed to the University the sum of £800 for Bursaries. After Mr. Taylor's death, the trustees found that the estate was not sufficient to pay the various legacies in full. They paid over to the University in January, 1868, the sum of £560, and in September, 1878, a further and final dividend of £80, making in all £640, the free proceeds of which are applied to the payment of the two Bursars. The Senate are Patrons. The preference given to the names Tayler or Taylor, Ronald, Dunlop, Henderson, and McArthur, was cancelled by Ordinance No. 57 of the Universities Commission (1889).

Bursars—Arthur Turnbull, 1901 ; John Drummond, 1902.

JAMES THOMSON PHILOSOPHICAL ENTRANCE BURSARY (*Arts, Phil.*).—Founded by subscription in 1878 in memory of James Thomson, M.A., a distinguished student of this University, who died in 1876 before the close of his theological curriculum. The Bursary consists of the proceeds of a sum of about £300, and is tenable for two years. It is awarded biennially for the best examination in (*a*) Mental Philosophy and (*b*) English Literature alternately. The examination is open to all students of the first and second year who have not already attended the Logic, Moral Philosophy, or English Literature Class, and who have not attended a session in any other Scottish University. The Bursary is payable in four instalments, but the last instalment will not be paid till the Bursar has passed his examinations in Latin and Greek for the M.A. Degree in Glasgow University. The subjects of Examination in Mental Philosophy

and English Literature respectively are the same as for the John Ferguson Jaffrey Bursary. (See page 312.)

The next examination will be held in October, 1904, the subject of examination being Mental Philosophy.

Bursar—¹ John C. Watson, 1902.

WALKINSHAW YOUNG BURSARY (*Law*).—Founded in 1878 by Major Young, Dunmore, Kirn, who bequeathed to the University a sum of £500, free of legacy duty, for promoting any useful branch of Education which the Principal and Professors may think proper.

The following regulations have been adopted :—

1. The Bursary shall be tenable for two years, during which the holder shall give regular attendance as a public student in the Faculty of Law in the University, to the satisfaction of the Senate.

2. All persons who within two years previous to the time when an appointment to the Bursary is made, have, at an examination in Arts, for the Degree of B.L. passed in not fewer than two Arts subjects, or have passed in any two subjects for the Degree of M.A., shall be eligible as candidates, and the Senate shall appoint that one among the candidates who in their opinion is the most distinguished. A student who passes a qualifying Examination in the October of the session in which an appointment is made, shall be held eligible within this rule, but one who has passed an examination in the October two years preceding such an appointment, and has not passed any subsequent qualifying examination, shall not be eligible.

3. The Bursary shall not be tenable along with any other Bursary or Scholarship in the University.

The next appointment to this Bursary will be made in December, 1904. Applications, containing in each case a statement of any distinctions gained by the candidate, to be sent in to the Clerk of Senate on or before 1st December.

Bursar—¹ Cosmo A. Ralston, 1902.

WALTON BURSARY (*Medicine*).—This Bursary was founded in 1763 by Dr. William Walton, Huntingdon, for a student in Medicine. The Earl of Sandwich has the right of appointing to the Bursary one of two students nominated by the Senate. Preference is given to "Students of the English Nation." The Bursary may be held for four years. Value about £34 per annum.

Bursar—Alfred C. Sharp, 1901.

ANDREW WEIR BURSARY (*Medicine*).—Founded in 1884, in terms of a Bequest by Mrs. Janet Maxwell or Weir, relict of Andrew Weir, feuar in Paisley. Mrs. Weir bequeathed the sum of £500 to the University, and directed the annual income (about £16) to be devoted to maintaining a Bursary in connection with the Medical School, in such a manner as the Senate may appoint. The Bursary is in memory of a son of the founder, Andrew Weir, a medical student of Glasgow University, who held subsequently the post of

¹ Vacant through lapse of time.

Resident Physician in the Paisley Infirmary, and in the discharge of his duties there contracted a fever, of which he died. The Bursary is awarded annually at the beginning of the Winter Session, in accordance with the results of the second and third professional examinations, account being taken of the marks gained by all students who have passed both of these examinations within a period not exceeding thirteen months, reckoning backward from the date of the professional examinations in October of each year. During the tenure of this Bursary, which may be held along with another Bursary, the holder shall be bound to give regular attendance on the classes of the medical curriculum in the University.

Bursar—¹George M. Gray, 1903.

WILLIAM WHYTE BURSARIES (*Arts, Law, or Medicine*).—Four in number, founded in 1893 in memory of Mr. William Whyte, at one time Preceptor of Hutchesons' Hospital, in accordance with instructions contained in the Trust Disposition and Settlement of his daughter, Mrs. Isabella Whyte or Bamber, who died in 1882. The Trustees executed a Deed of Mortification transferring £2,000, less legacy duty, to Hutchesons' Hospital. The Bursaries are each of the annual value of £25, and are tenable for four sessions in the Faculties of Arts, Law, or Medicine. They are open to competition by boys who have attended and completed the curriculum in the Secondary Department of Hutchesons' Grammar School. Candidates must give in their names to Messrs. Hill & Hoggan on or before 1st September in each year, to be sent to the Clerk of Senate, that they may be entered for the University Entrance Bursary Competition. One Bursary will be awarded every year to the candidate highest in the order of merit who shall not have gained and elected to hold a Bursary of equal or higher value at the general competition, provided his attainments have reached a standard satisfactory to the Patrons of Hutchesons' Hospital.

The sum of £408 15s. 8d. at the credit of the Fund at 31st December, 1892, is to be allowed to accumulate until that sum, with such additions as may accrue from any portion of the income that may not be required for the purposes aforesaid, shall amount to a sum which will produce a return of £20 yearly. There shall then be instituted a Bursary of that value, to be competed for by girls educated in Hutchesons' Girls' School, which Bursary shall be tenable at the University of Glasgow.

Bursars—¹John D. Simpson, 1900; George Campbell, 1901; David Manson, 1902; Walter S. L. Dalglish, 1903.

KING WILLIAM'S BURSARIES (*Two in Arts and Two in Theology*).—These Bursaries, founded by his Majesty King William III. in 1695, were formerly six in number and known as the Exchequer Bursaries. They were tenable for six years—the first in Logic, the second in Moral Philosophy, the third in Natural Philosophy, and

¹ Vacant through lapse of time.

the last three in Divinity. The bursars in Philosophy received £10 per annum each, and those in Divinity £13 6s. 8d. The Foundation was regulated by Act of Parliament, 1758. By Ordinance No. 99 the Universities Commission (1889) altered the conditions and directions affecting the Foundation, making two Bursaries in the Faculty of Arts, each of the annual value of £15, and two in the Faculty of Divinity each of the annual value of £20. Each of the Bursaries is tenable for three years, and no longer. The Bursaries in Arts are open by competition to all students entering on their first year of attendance on a course of study for graduation in Arts. The Bursaries in Divinity are open by competition to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first year of attendance on a course of study for graduation in Divinity. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this foundation. (The Bursaries in Divinity are both vacant.)

Bursars in Arts—Euphemia W. Sutherland, 1902; Elizabeth F. Stevenson, 1903.

WILLIAMS BURSARIES (*Arts and Theology*).—The Rev. Dr. Daniel Williams, London, who died in 1716, founded bursaries tenable at the University of Glasgow by youths of South Britain, who shall be designed for the Ministry. The appointment rests with Dr. Williams's Trustees, and is made, subject to certain conditions, upon the result of a competitive examination held in London in July. Application for admission to the Examination must be made before the first day of June. Every candidate must satisfy the Trustees that he intends to enter the Protestant Dissenting Ministry. The Bursaries, £40 each per annum, are tenable for three years, but may, in the discretion of the Trustees, be renewed for a fourth year, either to enable the student to take Honours, or to enable him, after graduating, to enter the Divinity Hall. If the Bursary be continued after graduation and held in the Divinity Hall, the amount is raised to £45. Bursars must enter as public students of the University, and must therefore satisfy the requirements as to the Preliminary Examination in Arts, either before the examination in London, or in the next following Preliminary Examination. Prospectus of the Examination and other information may be obtained from the Secretary of the Trust—Francis H. Jones, B.A., Dr. Williams's Library, Gordon Square, London, W.C. (Two appointments in July, 1905.)

Bursars—¹ Harold C. Rowse, 1900; ¹ Henry M. Trafford, 1901; Andrew D. Harcus, 1903; ² Percy D. Hamilton, 1903.

WILSONE BURSARY.—(See Boyd and Wilson, p. 287.)

GEORGE YOUNG BURSARY (*Science*).—By Trust Disposition and Settlement of date 30th August, 1892, Mrs. Catherine M'Farlane

¹ Vacant through lapse of time.

² Appointed under Ord. No. 57, Section xv.

or Young, who died at Helensburgh on 4th November, 1893, directed her Trustees to make over to the Senate of the University of Glasgow the sum of £1,000, free of legacy duty, for the purpose of founding, in memory of her husband and son, a Bursary in connection with the class of Civil Engineering, on such terms and conditions as the Senate should from time to time fix. The Senate have determined that the Bursary shall, upon the recommendation of the Faculty of Science, be awarded to the candidate who has the best record in his First Science Examination. Students who have passed the whole of that examination or at least in Mathematics and Natural Philosophy with or without the higher branches specified in Ordinance No. 23, Section ix., Subsections 1 and 2, may offer themselves as candidates, but students who have completed the qualifying attendance in Engineering shall not be eligible. The Bursary shall be tenable for one year, during which the Bursar must attend a course of Laboratory Practice in Engineering and either a course (or half course) of Engineering Lectures or a course of Engineering Drawing. Appointment in the month of October.

Bursars—¹ Bernard P. Haigh, 1903 ; ¹ Robert Bilsland, 1903.

MAJOR YOUNG'S FUND BURSARIES (*Law*).—Two in number, founded in 1890 by the Trustees of the late Major Young, founder of the Walkinshaw Young Bursary. The amount of the Bursary Fund is about £1,312, and each of the Bursars receives one half of the free annual income thereof. In accordance with Major Young's desire, the Bursaries are open only to applicants whose pecuniary circumstances are such as in the judgment of the Senate render it desirable that they should have assistance in prosecuting their studies at the University, preference being given, *ceteris paribus*, to natives of Argyllshire or Renfrewshire. One of the Bursaries is tenable for six years, and is awarded by competitive examination to a student of the first year who intends to study for a Degree in Law. The Bursar is required during his tenure of the Bursary to attend such classes and to pass such examinations for a Degree in Law as shall be held by the Senate to correspond to the successive stages of his course and he must attend a class or classes in the Faculty of Law during at least the last two years of his tenure of the Bursary. The other Bursary is tenable for two years, and is awarded by competitive examination upon subjects prescribed by the Senate. Candidates must have expressed their intention of attending the classes of Scots Law and Conveyancing, and the Bursar must attend these classes in separate sessions during his tenure of the Bursary. Either of these Bursaries may be held with any other Bursary, Scholarship, or Prize in the University, but both shall not be held together by one Bursar. The subjects of examination are those prescribed for the General Bursary competition. (Both vacant).

¹ Vacant through lapse of time.

2. EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS.

ALPHABETICALLY ARRANGED.

N.B.—In cases in which a Scholarship or Fellowship falls vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition, and make an appointment for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

FOUNDATION.	No. of Scholarships, &c.	TENABLE BY	Approximate Annual Value of each.
Black Theological, -	1	Masters of Arts of Scot. Univ.,	£133
Breadalbane, - - -	2	M.A. or B.Sc., Eng., Glas. Univ.,	£55
Clark, George A., - -	4	3 M.A., 1 M.A. or B.Sc., do.	£168
Clark, John (Mile-end),	12	Arts Students at close of Curric.,	£50
Coats Memorial, -	1	Medical Graduates of Glas. Univ.,	£80
Cunninghame, - - -	2	Bachelors of Laws of Glas. Univ.,	£35
Donaldson, Alexander,	1	Candidates for B.Sc. (Chemistry),	£42
Donaldson, Robert, -	2	Bachelors of Science of Gl. Univ.,	£64
Eglinton, - - - - -	2	Masters of Arts of do.	£65
Euing, William, - -	3	Do. do.	£100
1851 Exhibition Science	2	Science Students, - - - -	£150
Ferguson, - - - - -	6	Masters of Arts of Scot. Univ.,	£80
Foulis Memorial, - -	1	Medical Graduates or Licentiates,	£50
Houldsworth, - - -	1	Research Students in Nat. Phil.,	£150
Lloyd's Register, - -	3	Students of Naval Architecture,	£50
Luke, - - - - -	1	Masters of Arts of Glas. Univ.,	£95
Mackay Smith, - - -	2	Students in Nat. Phil. and Chem.,	£48
Mackinnon, - - - -	1	(See page 364),	£56
Metcalfe, - - - - -	1	Masters of Arts of Glas. Univ.,	£100
Reid-Stewart, - - -	1	Do. do.	£56
Sandford, - - - - -	1	Greek Students, do.	£20
Scott (Sir Walter), -	1	Masters of Arts of do.	£80
Shaw Philosophical, -	1	Do. Scot. Univ.,	£140
Snell (at Oxford), - -	5	Masters of Arts, etc., Glas. Univ.,	£80
Thomson Experimental	3	Students of Natural Philosophy,	£20
Watt, James, - - - -	1	Bachelors of Science, - - -	£38

BLACK THEOLOGICAL FELLOWSHIP.—This fellowship, which is now of the annual value of £133, was instituted under the Will of the late Mrs. Janet Black (who died in 1876) in memory of her husband, the Rev. William Black, D.D., minister of the Barony Parish of Glasgow. Candidates must be members of the Established Church of Scotland.

The following regulations have been adopted by the Senate with the sanction of the University Court :—

1. The Black Theological Fellowship shall be tenable for one year.
2. It shall be awarded by competition open to Masters of Arts from any of the Universities of Scotland completing the ordinary curriculum of Theological study in the University of Glasgow in the academical year in which the examinations are held.

3. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

4. The Fellowship shall be awarded by the Theological Faculty at the close of the winter session to the most distinguished graduate in Divinity of the session qualified in terms of the foundation, but the Fellowship shall be awarded only if the Candidate has, in the opinion of the Faculty, attained a sufficient standard of merit.

5. The holder of the Fellowship shall, during the tenure of it, perform such duties—whether in the form of giving a short course of lectures, or of undertaking tutorial work, or otherwise—within the University, as may be assigned to him by the Faculty of Theology with the sanction of the Senate.

6. The Fellowship shall not be held in conjunction with any other Theological Fellowship or Scholarship or Prize falling to be awarded at the same time, or subsequently during its tenure.

Subject to these regulations an appointment to the Fellowship will be made in April, 1905.

Present Fellow—George Muir, B.D., 1904.

BREADALBANE SCHOLARSHIPS.—The second Marquis of Breadalbane, an alumnus, and afterwards Rector of the University, gave from the first year of his Rectorship (1840-41), and during his lifetime, the sum of £100 annually, which was for some years distributed in prizes among certain classes, and afterwards appropriated to the establishment of two Scholarships, the one in Mathematical and Physical Science, and the other in Mechanical Philosophy, Chemistry, and those branches of Natural History that are connected with the Arts and Manufactures.

The Marquis died in 1862, and his Deed of Settlement made provision for the “annual payment, in all time coming, to the University of Glasgow, of the sum of £100, to be paid yearly to deserving students in this college, as scholarships or Bursaries, to be called the ‘Breadalbane Scholarships,’ in such manner as shall be fixed by the Senatus Academicus of the said University.”

The following regulations have been approved by the Senate:—

The number of Scholarships shall be two, of £50 each per annum, for the encouragement of pure and applied Science.

The scholars shall be chosen, after competitive examination in Mathematics and Natural Philosophy, from among candidates who shall have taken the Degree of Master of Arts, or the Degree of Bachelor of Science in the Department of Engineering Science, at the University of Glasgow, within a period of not more than three years preceding the examination; provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in April immediately preceding.

Each scholar shall pursue such course of scientific study during the

tenure of his Scholarship as the Senate shall in each case prescribe, and shall hold his Scholarship for three years ; provided that at the end of the first and second years he give the Senate such evidence, by examination or otherwise, as the Senate shall deem sufficient, of having successfully prosecuted the prescribed course of study. The annual value of each Scholarship is now £55.

Scholars—¹ David G. Taylor, M.A. (1901), 1902 ; ¹ Francis P. H. Stirling, M.A., 1901.

CARNEGIE FELLOWSHIPS AND SCHOLARSHIPS.—See pp. 161-168.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS.—By the Will of the late Mr. George A. Clark, manufacturer, Paisley, a sum of £20,000 was bequeathed in 1872 to this University for the creation of four Bursaries, tenable each for four years. The following are the regulations :—

1. One of these Bursaries shall be competed for annually, at or immediately after the October examination for Degrees in Arts or Science.

2. The four Bursaries are assigned respectively to four of the Groups of Honours enumerated in Ordinance No. 11, Section xi., of the Universities Commission (1889), viz. :—(1) Classics ; (2) Mental Philosophy ; (3) Mathematics and Natural Philosophy ; (4) English (Language, Literature, and British History).

For the Classics Bursary or Scholarship either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Classics, may be candidates ; for the Mental Philosophy Bursary or Scholarship, either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mental Philosophy, may be candidates ; for the Bursary or Scholarship in Mathematics and Natural Philosophy either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mathematics and Natural Philosophy, or Bachelors of Science of this University who have taken the Degree of B.Sc. in Pure Science, or students presenting themselves for the final examination for the B.Sc. Degree in Pure Science in the subjects of Mathematics and Natural Philosophy, may be candidates ; and for the Bursary or Scholarship in English either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in English, may be candidates.

But no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. Degree or the B.Sc. Degree.

¹ Vacant through lapse of time.

3. The successful candidate shall undertake, during his tenure of the Bursary, to give such assistance in the teaching work of the University, and to follow such a course of study in the University as the Senate may determine.

4. The subjects of examination each year shall be those which constitute the examination for Honours in one of the above-named Groups (the Group selected each year for examination to be publicly announced). The Senate reserve the right to withhold the Scholarship, should none of the competitors reach the standard of attainment required of graduates in Arts with highest honours.

5. In the event of the examiners reporting in any year that no candidate has done sufficiently well in the subjects of that year to deserve the Scholarship, no appointment shall be made in that year; but it shall be in the power of the Senate to hold an examination for the same Scholarship, and in the same subjects, in the following year; provided that in that case the Scholarship shall be held for three years only and not for four, the surplus revenue being added to the capital of the fund. Should the same thing occur again, it shall be in the power of the Senate to appoint a Scholar for two years only, or for one year only, the examination in each case being in the same subjects as when the Scholarship was first competed for. In the same manner, in the event of a vacancy occurring in the tenure of any of the Scholarships otherwise than by lapse of time, the Senate may make an appointment for the remainder of the term for which the Scholarship might have been held by the student vacating it, and after examination in the same subjects as those for proficiency in which the Scholar was originally appointed: but in no case shall the regular rotation of subjects as above provided for be disturbed. In the competition for scholarships to be held for less than four years, no student shall be admitted to examination who would not be eligible, as above arranged, for a Scholarship to be held for four years. In the event of a candidate being appointed to a vacancy to be filled for less than four years, and being still eligible, under the usual regulations as above, to compete for the said Scholarship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Scholarship, but in no case shall any student be permitted to hold the Scholarship for more than four years in all.

6. It shall not be competent for the holders of these Bursaries to hold any other Bursary or Scholarship in this University.

7. It shall be in the power of the Senate to deprive any Bursar of his Bursary, in the event of his not complying, to their satisfaction, with any of the above regulations.

8. The Examiners shall be the same as the Examiners for the Degree of M.A. with Honours in each of the several departments, and for the Degree of B.Sc.

Two of these Bursaries or Scholarships will be competed for, subject to the foregoing regulations, in October, 1904. The one will be tenable for four years, and the examination will be in the fourth of the four groups above enumerated, viz., English. The other will be tenable for two years, and the examination will be in Mental Philosophy.

Candidates are requested to give in their names to the Assistant Clerk (Matriculation Office), not later than 14th September.

Bursars—¹John L. Morison, M.A., 1900 (English); Samuel F. H. Mackay, M.A., 1901 (Classics); ²Alexander D. Lindsay, M.A., 1902 (Mental Philosophy); William Miller, M.A., 1903 (Math. and Nat. Phil.).

JOHN CLARK (MILE-END) SCHOLARSHIPS.—By the Deed of Constitution regulating the John Clark Bursaries (see page 291), the Founder, Mr. John Clark, also instituted Scholarships of £50 annual value, open for competition to all Protestant students of good moral character, sons or daughters of Protestant parents, and who have completed their curriculum in Arts in Glasgow University. The Scholarships are to be awarded to the candidates who stand highest at written examinations in the branches of learning appointed by the trustees, and are tenable for four years, subject to the condition that the Scholars give their undivided time and attention to the prosecution of their studies with a view to any of the learned professions, or, on approval of the trustees, any other profession or business they may prefer. The trustees have resolved that they will not, in ordinary circumstances, appoint to a Scholarship any one who holds a Scholarship of equal or greater value, and that no student shall be eligible for the examination after the expiry of more than eight winter sessions from the time of his first entering a qualifying class. Four Scholarships are offered for competition in October, 1904, one in the Group of Economic Science (tenable for three years), one in the Group of Mental Philosophy (four years), one in the Group of Mathematics and Natural Philosophy (four years), and one in the Group of Semitic Languages (four years). The examination will be on the subjects prescribed for the Degree of M.A. with Honours in the respective Groups.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), and also to Mr. Kidston, 50 West Regent Street, Glasgow, on or before the 14th September.

Scholars—Steuart N. Miller, 1901 (Classics); William R. Wiseman, 1901 (Mental Philosophy); David G. Taylor, 1901 (Math. and Nat. Phil.); John R. Cameron, 1902 (English); Mary C. Cameron, 1902 (Modern Languages); George Stewart, 1903 (History); William Manson, 1903 (Classics).

¹ Vacant through lapse of time.

² Vacant. Scholar appointed to the Shaw Fellowship.

JOSEPH COATS MEMORIAL SCHOLARSHIP.—Founded in 1900 by the friends of the late Professor Coats, as a memorial of his distinguished services to Pathological Science, and in recognition of the ability and enthusiasm which he devoted to advance the teaching of the subject in Glasgow. The Scholarship is for the encouragement of original research in Pathology, is awarded biennially, and is tenable for one year. The Committee of subscribers paid over to the University Court £1,200, to the free proceeds of which for the two preceding years the Scholar is entitled during his year of tenure. Candidates must be graduates in Medicine in the University of Glasgow of not more than three years standing. The Scholarship will be awarded by the Senate on the results of a practical examination in Pathology, conducted by the Professor of Pathology with the assistance of two other members of the Faculty of Medicine to be appointed by the Senate in the beginning of October of every second year. The successful candidate must, for nine months following the award, prosecute research in Pathology with the Pathological Institute at the Western Infirmary, or in a Laboratory elsewhere approved of by the Faculty of Medicine, and shall not engage in Medical or Surgical practice during that period. The next appointment will be made in the beginning of session 1905-6.

Scholar—Carl H. Browning, M.B., Ch.B., 1903.

ANDREW CUNNINGHAME SCHOLARSHIPS.—Mr. Andrew Cunningham, Town Clerk Depute of Glasgow, who died in 1886, bequeathed to the University, free of legacy duty, £5,000, for the purpose of completing the tower, and also £350, the annual revenue of which was to be applied in purchasing a gold medal as a prize in the class of Mathematics. He also bequeathed to the Senate £2,000 for two Bursaries or Scholarships in connection with the Scots Law and Conveyancing Classes. The following regulations were adopted by the Senate on 15th March, 1888 :—

1. One half of the free income of the bequest shall be applied for the purpose of a Scholarship in connection with the class of Scots Law, and the remaining half for the purpose of a Scholarship in connection with the class of Conveyancing.

2. Each Scholarship shall be tenable for two years.

3. On each vacancy the candidate who, in the opinion of the Senate, is the most distinguished Bachelor of Laws of the year, shall be appointed, special consideration being given to eminence in Scots Law and Conveyancing.

4. Students who have been found qualified for the Degree of LL.B. at the spring and winter graduations of the year in which the appointment is made, shall be eligible as candidates.

5. The conditions of holding the Scholarships are that the scholars give such assistance in the work of the classes of Scots Law and

Conveyancing respectively as the Professors of these classes may require, subject to the approval of the Senate.

6. In the event of a vacancy occurring during the tenure of any Scholarship, the Senate may, if they think fit, appoint a Scholar to hold the Scholarship for the unexpired period.

An appointment to the Conveyancing Scholarship will be made in November, 1904, if candidates of sufficient distinction present themselves.

Scholar—Douglas A. Bannatyne, LL.B., 1903 (Scots Law).

ALEXANDER DONALDSON SCHOLARSHIP OR BURSARY.—Founded in 1881 by Will of the late Mr. Alexander Donaldson, iron merchant in Glasgow, who bequeathed to the Senatus of Glasgow University £1,000, to be administered by them as patrons for the endowment of a Scholarship or Bursary, at their discretion, in connection with the said University.

The following regulations were adopted by the Senate on 1st May, 1884 :—

1. The Scholarship shall be awarded to the candidate who, presenting himself for the first examination for the Degree of B.Sc. held in the month of April, shall stand highest in Chemistry.

2. The Scholarship shall be tenable for two years.

3. The second moiety of the second year's stipend shall be paid only after the Scholar has passed all the examinations for the Degree of B.Sc.

These regulations apply to students proceeding to the Degree of B.Sc. under the new regulations for that Degree.

The next appointment will be made after the B.Sc. examination in April, 1906.

Scholar—George D. C. Stokes, 1904.

ROBERT DONALDSON SCHOLARSHIPS.—Founded in 1887 by the trustees of the late Mr. Robert Donaldson, iron merchant, Glasgow, who left £2,000 to the Senate for two Scholarships for such scientific purposes as the trustees should approve. The following tentative scheme has been approved by the trustees :—

1. The income of the fund shall be devoted for two years alternately to Scholarships in Chemistry and Biology.

2. Each Scholarship shall be tenable for two years.

3. Students who have taken the Degree of B.Sc. in Glasgow University shall be eligible.

4. The appointment shall be made by the Senate on a report as to the merits of the candidate or candidates by the Professor of the subject.

5. The scholar appointed shall devote himself for two years in this University, or for one year in this University and the other in such place as the Senate may approve, to research in the subject in which he has obtained the Scholarship. The holder of the Scholarship in Biology shall have the option of selecting Zoology or Botany as the subject of research.

6. The Senate are not bound to make an appointment unless the candidate is in their opinion qualified.

The appointment in November, 1904, will be in Chemistry.

Scholar—Jane H. M'Iroy, M.A., B.Sc., 1902.

EGLINTON FELLOWSHIPS.—On the death of the Earl of Eglinton, formerly Rector of the University of Glasgow, a committee was formed to collect subscriptions for the purpose of commemorating in a suitable manner his virtues and public services; and, subscriptions having been received to the amount of £7,000, it was resolved by the subscribers, in 1862, to set apart £4,500 out of this sum as a Scholarship or Fellowship Fund in the University of Glasgow.

By the Trust Deed of date November 8th, 1865, the net yearly produce of the said sum (after deducting expenses) is to be appropriated to the support of one or more Fellowships, not exceeding three, to be competed for by the alumni of the College of Glasgow, and to be held for a period not exceeding four years, upon the following conditions, viz.: First,—The number of Fellowships, and the period during which the same are to be held, shall from time to time be fixed by the Senatus Academicus of the said University. Secondly,—The competition for the Fellowships shall be open only to deserving students who shall have taken the Degree of Master of Arts in that University at the term preceding the competition, and the Fellowships shall be awarded by the Senatus Academicus of the University to those students who have shown themselves in a public competition to have acquired the greatest amount of knowledge and proficiency in the branches of study embraced in the curriculum of Arts, and such branches of Natural Science as the Senate shall, from time to time, require. And, Thirdly,—The Examination for the Fellowships shall be under the direction of the Senatus Academicus of the University, who shall fix the subjects of examination, and the relative value of each subject in the competition, and appoint any of their own number, or other fit persons, to be Examinators, and make such regulations with relation to the said Fellowships, and the competition and examination therefor, as from time to time they may think fit.

The following are the regulations of the Eglinton Fellowships:—

1. The number of the Eglinton Fellowships shall be two (of about £65 per annum each), tenable for three years, subject to the approval of the Senate at the end of the first and second year.

2. The competition for the Fellowship shall be open only to deserving students who shall have taken the Degree of Master of Arts in the University of Glasgow, at the term preceding the competition.¹

3. One of the Fellowships shall be open to competition in October, 1866, and thereafter triennially (1905); and the other in October, 1867, and thereafter triennially (1906).

4. The successful candidate shall undertake, during his tenure of the Fellowship, to follow such a course of study in the University, or to give such assistance in the teaching work of the University, as the Senate may determine.

5. The Examination for the Eglinton Fellowship to be competed for in October, 1890, and thereafter sexennially (1908), shall be in Classics; and the Examination for the Eglinton Fellowship to be competed for in 1893, and thereafter sexennially (1905), shall be in Mental Philosophy.

The subjects of examination in Classics and Mental Philosophy respectively shall be the same as those for the Degree of Master of Arts with Honours.

6. The Examination for the Eglinton Fellowship to be competed for in October, 1897, and thereafter sexennially (1909), shall be in Mathematics and Natural Philosophy; and the Examination for the Eglinton Fellowship to be competed for in October, 1900, and thereafter sexennially (1906), shall be in English (Language, Literature, and British History).

The subjects of examination in Mathematics and Natural Philosophy and in English respectively shall be the same as those for the Degree of Master of Arts with Honours.

7. The Eglinton Fellowship shall not be held along with the Snell Scholarship, or Breadalbane Scholarship, and the holder of the Luke Fellowship or of the Metcalfe Fellowship shall not be admitted to compete for the Eglinton Fellowship.

The next ordinary competition will take place in October, 1905, the subject of examination being Mental Philosophy.

Fellows—John MacInnes, M.A., 1902 (Classics); Samuel N. Forrest, M.A., B.Sc., 1903 (Mathematics and Natural Philosophy).

WILLIAM EUING FELLOWSHIPS.—Founded in 1874 by Mr. William Euing, insurance broker, Glasgow, who by his Will bequeathed to the University, along with a library of rare and valuable books, the sum of £6,000 for the endowment of three Fellowships, each of the

¹ i.e. Either at the ordinary graduation in April or at the supplementary graduation in November.

value of £80 per annum, and tenable for not more than five years. The Fellowships are open only to deserving students who have completed the regular curriculum in Arts, and taken the Degree of M.A. at this University, and are awarded after competition in the subjects of the Arts curriculum. The Fellows are required to reside in Glasgow for at least nine months in the year, and "to open private classes of limited numbers, for giving instruction to, and aiding students of the University—more especially during the vacation, or such part thereof as may be found expedient—in such studies as may be auxiliary to, or illustrative of, the course of lectures which such students may have attended, or be desirous of attending, and also to carry out the same purpose by a systematic course of private tuition."

One Fellowship is attached to the department of Classics, one to the department of Mathematics and Natural Philosophy, and one to the department of Mental Philosophy, including Logic, Moral Philosophy, and English Literature.

The Senate have issued the following regulations for the competition for these Fellowships:—

1. In the department of Classics there shall be one Fellowship competed for in October, 1875, and thereafter at intervals of four years (1907), the period for which the Classical Fellowship shall be ordinarily tenable.

2. In the department of Mental Philosophy one Fellowship shall be competed for in October, 1876, and thereafter at intervals of three years (1906), the period for which the Fellowship in the department of Mental Philosophy shall be ordinarily tenable.

3. In the department of Mathematics and Natural Philosophy one Fellowship shall be competed for in October, 1875, and a Fellow appointed for two years: the Mathematical Fellowship becoming vacant in October, 1877, shall be filled up for a period of three years, the period for which the Fellowship in this department shall be ordinarily held.

In the event of a candidate being appointed to a vacancy to be filled for less than four years in the department of Classics, or for less than three years in the department of Mental Philosophy, or of Mathematics and Natural Philosophy, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than four years in all, or three years in all, respectively.

Fellows—¹ Roderick M. Nicol, M.A., 1901 (Math. and Nat. Phil.); Robert K. Goodfellow, M.A., 1903 (Classics); John W. Scott, M.A., 1903 (Mental Philosophy).

¹ Vacant through lapse of time.

EXHIBITION (1851) SCIENCE RESEARCH SCHOLARSHIPS.—Her Majesty's Commissioners for the International Exhibition of 1851 have instituted Science Scholarships, each of the annual value of £150, and tenable for two years, subject to the scholar's first year's work being deemed satisfactory by the Scientific Committee of the Commissioners. The nomination to a Scholarship has been placed at the disposal of this University in each year since 1891, and it is anticipated that similar arrangements will be made in future years.

Candidates must be British subjects, and must have been students of Science in some approved institution or institutions for a period of three years, at least the third year of the period having been spent in this University. Capacity for original research tending to advance Science or its applications is required as the main qualification. The Scholarships may be held at any University in England or abroad, or in some other institution approved of by the Commissioners; and every scholar will, in the absence of special circumstances, be required to proceed to an institution other than that by which he is nominated. He must devote himself to some particular scientific work in connection with those branches of Science, such as Physics, Mechanics, and Chemistry, the extension of which is especially important to our national industries. A sum of £25 is reserved from the fourth half-yearly instalment, and paid by the Commissioners on receipt from the Scholar, after the expiration of his Scholarship term, of a satisfactory report of his study and research during the term.

When a nomination falls to be made in any year, due notice will be given to enable candidates to lodge their applications with the Clerk of Senate before the beginning of April. Every application must be accompanied by a statement of the scientific study (including original research) in which the candidate has been engaged, and of the work to which he proposes to devote himself if appointed to the Scholarship.

Scholar—Alfred Walter Stewart, B.Sc., 1903; Robert A. Houston, M.A., B.Sc., 1904.

FERGUSON SCHOLARSHIPS.—With a view to the encouragement of the higher learning in Scotland, the trustees of the late Mr. Ferguson, of Cairnbroek, out of his legacy of £50,000 for educational and other purposes, instituted in 1860 six Scholarships, each of the value of £80 per annum, to be held for two years, and to be called "The Ferguson Scholarships."

The examination of candidates for three of these Scholarships will be held in Glasgow, on Tuesday, 20th September next, and two following days. One of the Scholarships will be awarded for the greatest proficiency in Classics; one for the greatest proficiency in Mathematics, including Natural Philosophy; and one for the greatest proficiency in Mental Philosophy, including Logic, Psychology, Metaphysics, and Moral Philosophy.

Subjects for examination—

CLASSICAL SCHOLARSHIP.—Latin Prose Composition ; Latin Translation ; Greek Prose Composition ; Greek Translation. General—(a) Critical : (b) Greek and Latin History : (c) Greek and Latin Literature. Verse Composition, either in Greek or Latin ; or an original Latin Essay on some subject connected with Ancient History, Literature, or Life.

MATHEMATICAL SCHOLARSHIP.—*Mathematics*—Euclid's Elements. Modern Geometry. Algebra, including Determinants, Finite Differences, and Theory of Equations. Trigonometry, Plane and Spherical. Analytical Geometry, in two and three dimensions. Differential and Integral Calculus, and Differential Equations.

Natural Philosophy.—Abstract Dynamics (commonly called Mechanics), including Kinematics and Statics and Kinetics of Solids and Fluids. Acoustics, Heat, Light, Magnetism and Electricity, treated both mathematically and experimentally.

Candidates will be allowed a choice of questions, and may obtain full marks by showing good general knowledge and an intimate acquaintance with any branches they may have specially studied.

PHILOSOPHICAL SCHOLARSHIP.—*Logic*.—Province and History of Logic. Notions, Judgments, and Inferences. Recent developments of Formal Logic. Fallacies. Theory and Methods of Scientific and of Historical Proof.

Psychology and Metaphysics.—The Phenomena and Laws of Mental Life and of its Development. Theory of Knowledge. Theory of Reality.

Moral Philosophy.—Psychology and Metaphysics of Ethics. Relations of Ethics to Law, Politics, and Economics. Applied Ethics.

History of Philosophy.—History and Critical Analysis of Ancient and Modern Systems of Philosophy.

The competition will be open to all persons who have passed the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the Degree at the same time or not), provided that, at the time of the competition, not more than six years have elapsed since the date of their first entering a class qualifying for the M.A. Degree, and who have not already gained one of these Scholarships.

The Examinations will be conducted in writing, and the Scholarships awarded on the report of the Examiners as to the merit of the Candidates, but the minimum of 60 per cent. of the possible marks must be reached in order to entitle to a Scholarship.

The Scholarships, of £80 each per annum, are tenable for two years, subject to fulfilment of the following rule of the trustees :—

“Persons gaining the Scholarships will be expected, during the tenure thereof, to prosecute studies in furtherance of the higher learning ; and those who have not graduated shall be required to do so before the last payment is made.”

Certificates will be granted to such of the unsuccessful competitors as, in the opinion of the Examiners, shall have taken a distinguished position in the Examinations.

Candidates are requested to give in their names, personally or by letter, at the office of THE FERGUSON ENDOWED FUND, 34 Bath Street, Glasgow, before 1st September, 1904, and the instructions will be sent to those included as to the place and hours of Examination.

The following Students of the University of Glasgow have obtained Ferguson Scholarships:—

1868, James Smith, Mathematical; 1868, Archibald R. Cameron, Philosophical; 1870, John Cross, Classical; 1870, James Orr, Philosophical; 1871, Wm. W. Waddell, Classical; 1873, Thomas H. Miller, Mathematical; 1874, William Patrick, Philosophical; 1874, William V. King, Classical; 1878, John M.A. Dicks, Mathematical; 1878, Thomas B. Kilpatrick, Philosophical; 1881, Robert F. Munro, Mathematical; 1882, James A. McCulloch, Philosophical; 1886, James Buchanan, Mathematical; 1886, Andrew F. Smith, Philosophical; 1888, Ernest F. Scott, Classical; 1888, Evan Ken Evans, M.A., Philosophical; 1890, Abraham Levine, M.A., Mathematical; 1891, James Hall, M.A., Mathematical; 1891, Horatio S. Cairns, M.A., Mathematical; 1897, William Boyd, M.A., Philosophical; 1898, George G. Vennart, M.A., Mathematical; 1899, Robert D. Bell, M.A., Classical; 1900, David K. Pinner, M.A., Mathematical; 1900, David M. Stewart, M.A., Mathematical; 1901, Alexander D. Lindsay, M.A., Philosophical; 1901, Francis P. H. Stirling, M.A., Mathematical.

Former Holders of the Scholarships.—Alexander Duthie, M.A., of Aberdeen University, Classics, 1902; Francis P. H. Stirling, M.A., of Glasgow University, Mathematics, 1900; James A. Robertson, M.A., of Aberdeen University, Mental Philosophy, 1903; William M. Calder, M.A., of Aberdeen University, Classics, 1903; William P. Miles, M.A., of Aberdeen University, Mathematics, 1903; John Hodge, M.A., of Edinburgh University, Mental Philosophy, 1903.

Ferguson Mathematical Scholarship.—This Scholarship was founded in 1901 in memory of the late DAVID FERGUSON, M.D., Glasgow, who had distinguished himself in Pathology and Surgery, and died at the age of 34 years. It is to be awarded as often as the accumulated income from the bequested funds amounts to £50. The next vacancy will take place in September, 1905. It is tenable by a graduate or licentiate whose professional education has, to the extent of not less than two years, been received at the University or one of the extra-mural schools of Glasgow, and who shall, in the opinion of the trustees, have manifested a capacity for original work in the department of Pathology. The purpose of the Scholarship is to assist in the prosecution of such work in one of the Medical Schools

in or furth of Scotland, approved of by the trustees; and the trustees have power to determine whether it should be awarded by competition or otherwise.

The trustees are the Professor of Practice of Medicine in the University, the President and Visitor of the Faculty of Physicians and Surgeons of Glasgow, and the Pathologists of the Western and Royal Infirmaries. Further particulars may be obtained from Messrs. J. M. Taylor, Foulis & Co., 180 St. Vincent Street.

Scholar—John M. Cowan, M.D., D.Sc., 1903.

WILLIAM HOULDSWORTH RESEARCH STUDENTSHIP.—In March, 1898, the late William Houldsworth, merchant in Glasgow, in recognition of the distinguished services of his friend, Lord Kelvin, to the cause of scientific research, made over to the University the sum of £5600 invested in Great Eastern Railway Four per cent. Debenture Stock, to provide a Research Studentship in connection with the Faculty of Science. Candidates must be students of at least two years' standing in the University of Glasgow. The studentship is tenable for two years, and the holder must prosecute his work with diligence and regularity so as to receive from the Professor of Natural Philosophy a certificate of creditable success. A proportion, viz., four-fifths, of the annual income is payable without deduction to the Research Student for personal expenses, and the remaining fifth part, after meeting the expenses of administration, is applied in payment of laboratory expenses and materials in connection with the Research Student's work, and in payment of his matriculation fees and of the fees for such Science Classes, if any, at the University as he may attend with the approval of the Senate. The said one-fifth part of the income must be expended at the sight and to the satisfaction of the Professor of Natural Philosophy or upon orders granted by him, and the Research Student is required to furnish the Professor with a statement showing the sums so expended in each session, and also during his tenure of the Studentship. Any surplus remaining over shall be added to the principal of the fund. In the event of the Studentship falling vacant otherwise than by lapse of time, the Senate may immediately make another appointment for a period not exceeding two years, and in the event of the Senate considering it not advisable at any time to make an appointment on the occurrence either of a casual vacancy or of a vacancy in regular course, the same may be deferred, and the income thus left unused shall be added to the principal of the fund.

When a vacancy occurs, the applications of candidates must set forth the particulars required by Ordinance No. 61, Section III. See page 155.

Research Student—¹ Dougald B. McQuistan, M.A., 1902.

¹ Vacant through lapse of time.

LLOYD'S REGISTER SCHOLARSHIP—In 1889 the General Committee of Lloyd's Register of British and Foreign Shipping intimated their intention of establishing a Scholarship of the yearly value of £50, tenable for three years by students of Naval Architecture in this University. In 1893 two additional Scholarships, each of the same value and tenure of the first, were announced. They are open to competition to candidates whose age does not exceed 23 years. Each candidate must produce satisfactory evidence that £50 a year would enable him to pursue his studies, and that he would be unable to do so unless this aid were afforded. The subjects of examination are the following :—Euclid, Books I. II. III. IV. VI. and XI.; Algebra, including Quadratic Equations, the three Progressions, and Binomial Theorem; Plane Trigonometry, with use of Logarithms; Elements of Statics, Dynamics, and Hydrostatics; Practical Shipbuilding; Mechanical Problems. A preference will be given to a candidate who possesses a thorough grammatical knowledge of English and of either French or German, although he may be somewhat deficient in the other subjects prescribed. One Scholarship will be open to competition in October, 1904. Names of Candidates to be sent to the Assistant Clerk (Matriculation Office) on or before 14th September, 1904.

Scholars—¹ William Dawson, 1901; Alexander Chisholm, 1902; Frederick L. Mayer, 1903.

LUKE FELLOWSHIP.—In 1863, the late William Luke, Esq., of Edinburgh, bequeathed to the University of Glasgow the sum of £3,000 sterling, "to perpetuate the memory of his nephew George Rankin Luke" (formerly a highly distinguished student of this University, and afterwards student of Christ Church, Oxford), "in such a manner as his esteemed friend, Professor Nichol, may consider most beneficial." Professor Nichol exercised the discretionary power thus conferred on him by directing that the sum bequeathed should be applied to the founding of a Luke Fellowship. The following are the regulations :—

1. There shall be a single Luke Fellowship (of about £95 per annum), tenable for three years, subject to the approval of the Senate at the end of the first and second years.

2. The Luke Fellowship shall be awarded on examination on English Literature, and on prescribed periods in History.

3. The Luke Fellowship shall be open to competition in October, 1868, and thereafter triennially.

4. Competitors for the Luke Fellowship must be Masters of Arts of this University, of not more than three years' standing; provided always that students graduating at the supplementary graduation in November of any year shall, for all purposes, be held to have graduated at the ordinary graduation in the April immediately preceding.

¹ Vacant through lapse of time.

5. The Luke Fellowship shall not be held along with the Snell Scholarship, the Clark Scholarship, the Eglinton Fellowship, or the Euing Fellowship.

6. Students who have competed at one Luke Fellowship Examination shall not be admitted to another, nor shall the holder of the Eglinton Fellowship; but in the event of a candidate's being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the Luke Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

Ordinance No. 100 of the Universities Commission (1889) prescribes that the provisions of Ordinance No. 57 shall apply to the Luke Fellowship, but provides that it shall not be a condition of tenure of the Fellowship that the holder shall give assistance in teaching the class of English Literature.

The next competition for the Luke Fellowship will take place in October, 1904, the subjects being those for Honours in English (Language, Literature, and British History).

Fellow—Charles A. Young, 1901.

M'CUNN MEDICAL RESEARCH SCHOLARSHIPS.—These Scholarships were instituted in 1904 by the Trustees of Mr. William M'Cunn, of Landour, Largs, who died on 29th July, 1896. They are four in number, each of the annual value of £100, and tenable for one year. They are open to Graduates in Medicine of a Scottish University, provided that not more than two years shall have elapsed since the candidate has taken his or her degree. The subjects are eight in number, divided into two groups, viz.: Group A.—Medicine, Surgery, Pathology, Bacteriology. Group B.—Therapeutics, Public Health, Physiology, Physiological Chemistry. In 1904 four scholarships will be awarded for the encouragement of original research in one or more of the four subjects in Group A; in 1905 four will be awarded in like manner in Group B. A candidate must be nominated by a Professor or Lecturer in a Scottish University, or by a Teacher in Scotland recognised for the purpose of Graduation in Medicine by a Scottish University. Nominations must be lodged with the Secretaries of the Trust on or before the first day of September, and candidates shall undergo a written examination to be held in Glasgow in the month of October. The scholars shall be appointed by the Trustees, and shall during the year of tenure prosecute research in one or more of the subjects for that year in such institutions, either at home or abroad, as may be approved by the Trustees. For further information and for nomination forms apply by letter to Messrs. McInnes, Mackenzie, and Lochhead, the Secretaries of the Trustees, 7 Gilmour Street, Paisley.

1 Vacant through lapse of time.

MACKAY SMITH SCHOLARSHIPS.—One in Natural Philosophy, the other in Chemistry, each of the annual value of £48, and tenable for two years in the Universities of Edinburgh and Glasgow alternately. During sessions 1882-83 and 1883-84 they were held in the University of Edinburgh, and during sessions 1884-85 and 1885-86 in the University of Glasgow. The next examination will be held in this University at the close of session 1904-5. Candidates must have already attended, or must be then attending the class of Natural Philosophy or Chemistry respectively. The Scholarship in Chemistry will be awarded on an examination held at the same time and of the same scope as the Final Science Examination in that subject for the Degree of B.Sc. in Pure Science, and the Scholarship in Natural Philosophy on an examination held at the same time and of the same scope as the examination in that subject for the degree of M.A. with Honours.

MACKINNON SCHOLARSHIP.—By the will of the late Sir William Alexander Mackinnon, K.C.B., LL.D., Surgeon-General of Her Majesty's Army and Director-General of the Army Medical Staff, a sum of £2000, less legacy duty, was bequeathed to this University for the foundation of a Scholarship. The Scholarship is to be awarded to the person who shall in each year show the greatest proficiency in a competitive examination in (1) Geology, (2) Natural History (with Comparative Anatomy), and (3) Modern Foreign Languages, the examination in each subject to be held every third year. The subjects are to be taken in rotation, commencing in such order as the University authorities shall determine. In the event of the Scholarship not being awarded in any year, the amount of the Scholarship with any accumulations shall be added to the amount to form the Scholarship in the same subject on the recurrence of the examination therein.

The following are the regulations :

1. The rotation of subjects shall be as follows :—Modern Foreign Languages at the Autumn Degree Examination, 1903, Natural History (with Comparative Anatomy) in Autumn, 1904, and Geology in Autumn, 1905, and so on thereafter.

2. The examination in Modern Foreign Languages shall be the same, and shall be held at the same time as the examination for Degrees in Arts with Honours in Modern Languages.

3. The examinations in Natural History (with Comparative Anatomy) and in Geology shall be the same and held at the same time as the Final Science Examination in these subjects for the Degree of B.Sc.

4. The holder of the Scholarship in one year shall be eligible for reappointment the next year, provided he is found qualified on examination in the subject for that year; provided also that no candidate shall hold the Scholarship more than once in any subject.

5. The order of merit shall be fixed by the examiners at each examination, but no appointment in the Science subjects shall be made unless the candidate highest on the list shall have obtained at least 65 per cent. of the attainable marks.

6. Should the Mackinnon Scholarship in Geology fall vacant at the same time as the Baxter Demonstratorship, the two appointments may be held concurrently.

Subject to these regulations, an appointment falls to be made after the examinations in September-October, 1904, to the Scholarship in Natural History (with Comparative Anatomy).

Scholar—¹ Janet Green, 1903 (Modern Languages).

METCALFE FELLOWSHIP.—Founded by the late Miss Sarah Metcalfe, Glasgow. (See under Metcalfe Bursaries, p. 328.)

The following are the regulations of the Metcalfe Fellowship:—

1. There shall be a Fellowship on the Metcalfe Foundation of the annual value of £100, tenable for three years, to be competed for in October, 1872, and thereafter triennially (1905).

2. Candidates must be Masters of Arts with Honours in the Group of Mathematics and Natural Philosophy, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall for all purposes be held to have graduated at the ordinary graduation in the April immediately preceding.

3. The examination shall be the examination for the Degree of Master of Arts with Honours in the Group of Mathematics and Natural Philosophy.

4. The Fellowship shall be held subject to the condition of pursuing in the University of Glasgow a course of study in such of the following subjects—viz., Higher Mathematics, Astronomy, Civil Engineering, and Chemistry—as the Senate shall in each case prescribe.

5. The Metcalfe Fellowship shall not be held along with the Eglinton Fellowship, the Snell Scholarship, or the Breadalbane Scholarship; and the holder of the Eglinton Fellowship shall not be allowed to compete for the Metcalfe Fellowship; but in the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

Fellow—² Robert A. Houstoun, M.A., B.Sc., 1902.

REID STEWART FELLOWSHIP.—Mr. James Reid Stewart, Ironmaster, Glasgow, who died on 8th August, 1896, directed his Trustees

¹ Vacant through lapse of time. ² Vacant through resignation.

to pay a legacy of £2000, under deduction of legacy duty, to the Senate, the free income of which is to be applied in and towards a Fellowship to be called the Reid Stewart Fellowship.

The following are the regulations :—

1. Candidates must be Masters of Arts who have taken the Degree of M.A. with Honours in either the Group of History or the Group of Economic Science, or be students presenting themselves for the final examination for the M.A. Degree with Honours in either of these Groups. The Fellowship shall alternate between History and Economic Science, beginning with History and giving three years to each.

But no student shall be admitted to the examination after the expiry of more than three winter sessions from the time of his completing the course necessary for the Degree of M.A. with Honours in either of these Groups.

2. The papers set in the examination shall be the same as the papers set for Honours in these Groups at the October examinations for Degrees in Arts, and the Examiners shall be the Examiners for the Degree of M.A. with Honours in these Groups. The Fellowship will be awarded for excellence in one Group, but not in both.

3. The Fellowship shall be tenable for three years, subject to the condition that the holder give his time and attention to the prosecution of his studies with a view to one of the learned professions or to such professional or business avocation as may be approved of by the Senate.

4. In the event of a vacancy occurring otherwise than by lapse of time, it shall be in the power of the Senate to appoint, after competition under the same conditions as above, either for the unexpired period of the vacated Fellowship or for the full period of three years. If the Fellowship is offered for a period of less than three years, the conditions of competition and tenure shall be the same as those stated above, provided that no student shall be excluded from the competition who was eligible when the Fellowship was last offered for three years.

5. In the event of the Examiners reporting in any year that no candidate has done sufficiently well to deserve the Fellowship, no appointment shall be made on that occasion, but the Fellowship shall be offered for competition in the following year under the same conditions as in the case of a vacancy occurring otherwise than by lapse of time.

6. It shall not be competent for the holder of the Reid Stewart Fellowship to hold any other Bursary, Scholarship, or Fellowship in this University, without the special leave of the Senate. The next competition will take place in October, 1905, and the examination will be the examination for Honours in the Group of History.

Fellow—Stanley H. Turner, M.A., 1902 (Economic Science).

SANDFORD SCHOLARSHIP.—Founded in 1862 (by the investment of a sum of £520, raised by subscription), in memory of Sir Daniel K. Sandford, the eminent Professor of Greek in this University, who died in 1838. It is tenable for two years, and is awarded to the student who, on examination, gives proof of the greatest proficiency in the Greek language. Value about £20 per annum.

The examination of candidates for this Scholarship takes place every alternate year in the month of April (1906), and is open to all matriculated students (not Masters of Arts) who have attended the Public Greek Classes for not less than two sessions.

The subjects of examination are selected from the following authors:—Homer, 12 books; Herodotus, 4 books; Sophocles, 3 plays; Thucydides, 4 books; Æschylus, 3 plays; Demosthenes, one or more orations; Aristophanes, 3 plays; Xenophon's *Memorabilia*; Pindar; Plato, one or more dialogues.

Candidates are examined on not more than four of the above-mentioned authors (of which Homer is always one)—two in prose and two in verse; and the subjects for each examination are given out by the examiners at the end of the session previous to that in which the examination takes place. Candidates are also examined on Translations from Greek into English, with Criticisms, and Translations, in prose and verse, from English into Greek.

The subjects for April, 1906, will be:—Homer, *Odyssey*, i.-xii.; Sophocles, *Oedipus Rex*, *Oedipus Coloneus*, *Antigone*; Herodotus, vi.-ix.; Demosthenes, *De Falsa Legatione*; Unseen Translation; Prose Composition and Iambic Verse if any Candidate offers it.

Scholar—James C. M. Fairlie, 1904.

(SIR WALTER) SCOTT SCHOLARSHIP.—(See under head "Scott Bursaries," p. 338).—This Scholarship, in value £80 per annum, is open for competition to Masters of Arts in the University of Glasgow of not more than three years' standing, having graduated with Honours in Classics or in Mental Philosophy, or to students who, at the time of competition, are presenting themselves for the final examination in the said University for the M.A. Degree with Honours in Classics or in Mental Philosophy. The examination to be in Classics, Mental Philosophy, and English Literature, which may include History. The Scholarship is tenable for two years, and the holder is required to follow such a course of study in the University of Glasgow, or give such assistance in the teaching work of the University as the Senatus Academicus may determine. The Scott Scholarship is not to be held along with any other Scholarship, Fellowship, or Bursary of the University of Glasgow. "The subjects of examination for the said Scholarship shall be, with the addition after-mentioned, Classics, or Mental Philosophy, or both of these, the special subjects being those for the examination for the M.A. Degree with Honours in the given department or de-

partments for the year, and in addition to the examination above-mentioned the competitors for the said Scholarship shall undergo an examination in English Literature of a higher kind than that required for an ordinary pass." The Scholarship will be open to competition in October, 1904. The examination will be in Mental Philosophy and in English Literature (not Language) from Chaucer downwards.

Scholar—¹William H. Coats, M.A., 1902.

SHAW PHILOSOPHICAL FELLOWSHIP.—This Fellowship was founded by subscription in 1867, in the University of Edinburgh, in memory of Sir J. Shaw, Bart., who was born at Mosshead, in the Parish of Riccarton, and County of Ayr, in 1764, was elected Lord Mayor of London in 1805, and M.P. for the same city in 1806, and after a long and distinguished career, died in London in 1843; and is open to the competition of the Graduates in Arts of any of the Scottish Universities. The Fellowship consists of the free proceeds of the sum of £4,100 mortified to the Senatus Academicus of the University of Edinburgh under the following conditions, namely:—

1. The said Fellowship shall bear the name of "THE SHAW PHILOSOPHICAL FELLOWSHIP," in memory of the said Sir James Shaw, Baronet.

2. The Patronage of the said Shaw Philosophical Fellowship shall belong to the said Senatus Academicus, and shall be exercised by them, subject to the conditions herein contained, for the encouragement of the study of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy.

3. The Fellowship shall be awarded by competitive examination in the subjects of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy.

4. The Fellowship shall, on each occasion of an appointment thereto, be open to the competition of Graduates in Arts of the Scottish Universities—that is to say, the University of Edinburgh, the University of Glasgow, the University of Aberdeen, and the University of St. Andrews, of not more than five years' standing at the time of the competition, and of all students of the said Scottish Universities who, although they have not graduated in Arts, shall yet have successfully passed the last of the examinations necessary for such graduation in Arts, within the period of five years before the time of the competition; and the said Senatus of the University of Edinburgh, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the University of Edinburgh, shall have power either to increase or to reduce the number of years of standing as graduates, or as students who have passed all the examinations necessary for graduation, as above fixed, for competitors for the Fellowship.

¹ Vacant through lapse of time.

5. The Fellowship shall be tenable for five years only, but the said *Senatus Academicus* of the University of Edinburgh shall have power, with consent of the *Senates* of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the said University of Edinburgh, to extend, with reference to all holders of the Fellowship, the term of tenure to any period of years not exceeding ten, if, in the course of time, it shall appear to them desirable to do so, from an increase in the number of foundations of a similar kind in the University of Edinburgh, or in the other Scottish Universities, or other sufficient reason.

6. The competitive examination for the said Fellowship shall, except in the case below provided for, be conducted by two Examiners, to be appointed in the manner following—to wit, one of the Examiners shall be appointed by the *Senatus Academicus* of the University of Edinburgh, either from among the members of the said *Senatus* or others, as they may think proper, and the other Examiner shall be appointed by the *Senatus Academicus* of one of the other Scottish Universities in rotation.

7. The said Examiners, so appointed, shall report their opinion of the result of the examination to the *Senatus Academicus* of the University of Edinburgh, who shall, as patrons of the said Fellowship, appoint thereto the candidate who appears by the report to be best qualified by proficiency in the subjects of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy, provided that, as required by the clause next following, such best qualified candidate shall, in the opinion of both the Examiners, have manifested a sufficiently high degree of proficiency to merit the Fellowship.

9. Each holder of the said Fellowship shall, during his tenure thereof, be entitled to receive the annual proceeds of Four Thousand One Hundred Pounds, and of any addition of the said sum which may hereafter be made thereto, as after-mentioned, after deducting all reasonable expenses, including the payment of remuneration to the Examiners appointed as aforesaid.

12. It shall not be competent for any person to hold the said Fellowship along with any other Fellowship, Scholarship, or Bursary, in any Scottish University, or appropriated to the students of any Scottish University or Universities.

17. It shall be in the power of the *Senatus Academicus* of the University of Edinburgh to require the holder of the Shaw Philosophical Fellowship during the fourth or fifth year of his tenure of it, to deliver in the University of Edinburgh a Course of Lectures, not exceeding four, on any of the subjects for the encouragement of the study of which the Fellowship has been founded; and notice shall be given to the holder of the Fellowship twelve months previously to the time fixed for the delivery of the said Lectures that he

is required to deliver them ; but the said Senatus, with consent of the University Court of the University of Edinburgh, shall have power to alter the number of Lectures, if it shall be found desirable to do so.

Present Fellow—Alexander D. Lindsay, M.A. (of Glasgow University), 1904.

SNELL EXHIBITIONS.—In the year 1677, Mr. John Snell of Uffeton, in the County of Warwick, a native of Scotland, and formerly student in this University, devised to trustees a considerable estate near Leamington, in Warwickshire, for educating Scottish students at Oxford.

The Exhibitioners are now elected under a scheme settled in the Court of Chancery in 1872. Under the provisions of this scheme it was then arranged that the number of Exhibitions should be limited to fourteen, it being lawful to elect three in each year, unless the number on the Foundation should thereby be increased beyond fourteen, in which case not more than two were to be elected, the Exhibition being tenable for five years ; but by an agreement of date 2nd April, 1878, under provisions of the same scheme, the following regulations were sanctioned :—

1. The stipend of each Exhibitioner admitted to the foundation after the 31st day of December, 1878, shall be £132.

2. Until the 31st day of December, 1880, the greatest number of Exhibitioners shall be twelve.

3. During the year from the 31st day of December, 1880, to the 31st day of December, 1881, the greatest number of Exhibitioners shall be eleven.

After the 31st day of December, 1881, the greatest number of Exhibitioners shall be ten.

The number of ordinary Exhibitioners it shall be lawful to elect in each year shall be three, unless the number on the foundation for the time being would be thereby increased beyond the greatest number for the time being permitted by this agreement, in which case not more than two shall be elected.

By a subsequent agreement of date 21st January, 1886, the following modifications were made :—

1. The value of the Snell Exhibitions shall be reduced to £80 a year.

2. They shall be held, as heretofore, for five years, but the whole sum of £400 will be paid to each Exhibitioner during the first three years of his tenure in equal annual sums, but a moiety of the last annual payment shall be kept back, if the authorities of Balliol College think fit, until the Exhibitioner shall have taken his Degree.

Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided¹ as Under-graduate Students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland." "No candidate shall be admitted to examination who shall be a member of the University of Oxford of more than one year's standing from the day of his matriculation inclusive; and no candidate shall be admitted to examination more than once after he shall have completed his 23rd year; but a candidate otherwise qualified shall not be excluded from examination on the ground that he is a graduate of any Scotch University."

Candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than 1st December, 1904. The next examination will be held in March-April, 1905, on the same days and at the same hours as the Examinations for the Degree of M.A. with Honours, the English paper being taken on Saturday, 1st April, at 9 A.M.

The subjects of examination are as follows :

IN LATIN, GREEK, LOGIC, MORAL PHILOSOPHY, AND HISTORY.—The subjects of examination for the Degree of M.A. with Honours.

IN NATURAL PHILOSOPHY AND MATHEMATICS.—The subjects of examination for the Ordinary Degree of M.A., and higher subjects which any candidate may express a wish to be examined in.

Candidates are requested to take notice that they are not required to attend the examination in more than one of the four groups, viz.: Classics, Mental Philosophy, Mathematics and Natural Philosophy, and History; that a candidate may be appointed for decided excellence in any one department alone; and if such excellence in some one of the departments be not displayed by three of the candidates, the Senate will either appoint a candidate who has shown sufficient proficiency in several departments, or will abstain from making three appointments. All candidates, however, will be required to write an English Essay on a subject prescribed at the time. Candidates who do not offer Classics will be required to show such a knowledge of Latin and Greek as to prove their ability to pass Responsions at Oxford.

Exhibitioners — George H. Stevenson, 1900; Peter Hately Waddell, 1901; Matthew Stewart, 1902; Charles G. Nelson, 1903; William J. Auld, 1904.

THOMSON EXPERIMENTAL SCHOLARSHIPS.—Three Scholarships, in value about £20 each, for the promotion of Experimental Research, founded by Sir William Thomson (now Lord Kelvin), LL.D., D.C.L.,

¹ By Resolution of date December 13th, 1866, the Senate determined that "Residence" shall, for the purpose of the Snell Trust, be constituted by regular attendance as a public student for the complete winter session on not less than two of the classes in the curriculum for the Degree of Arts.

Professor of Natural Philosophy in the University, by letter to the Principal of date September 6th, 1869, in which, after referring to "the liberal and friendly spirit which had been shown him by his colleagues in respect to his connection with telegraphic enterprise," and the "facilities for experimenting which the College had afforded him," he states that "he wished to mark his sense of these benefits by setting aside something of what he had received to assist in promoting the cultivation of experimental investigation in Glasgow University," and for this purpose offered for the acceptance of the Senate the sum of £1,000.

The scholars are appointed by the Senate on the recommendation of the Professor of Natural Philosophy from among students who have previously shown their zeal and ability in Experimental Investigations in the Physical Laboratory, and they are required to engage in the continual prosecution of Experimental Investigations in the Laboratory for not less than nine months of the year, to the satisfaction of the Professor of Natural Philosophy. These Scholarships may be held along with any other Bursary, Scholarship, or Fellowship.

Scholars for 1903-4—Robert Hamilton, M.A., 1903; John Miller, 1903.

JAMES WATT SCHOLARSHIP.—In 1808, James Watt, LL.D., presented the College with a perpetual annuity of £10, for the institution of a prize, to be awarded to the author of the best Essay on some subject in the following branches of study, to be taken in rotation:—
1. Any branch of Mechanics or its dependent Arts. 2. Statics, and the Machines and Arts dependent. 3. Pneumatics, Statical or Chemical, Machines and Arts. 4. Hydraulics, Hydrostatics, their Machines and Arts. 5. Chemistry, its Arts and Apparatus. All actual students who had completed, or who, at the end of the session in which the Prize fell to be awarded, should have completed a regular course of study in Languages and Philosophy, might be competitors. By Ordinance No. 93 of the Universities Commission (1889), issued on 15th February, 1895, and approved by Her Majesty in Council on 13th August, 1895, it was provided that the Watt Prize should be discontinued, that the funds should be allowed to accumulate for four years from the date of the Ordinance, and that thereafter a James Watt Scholarship in Engineering should be established.

The Scholarship is awarded by the Senate, on a special report by the Faculty of Science, to a Bachelor of Science of distinction of not more than two years' standing. It is tenable for two years, and the James Watt Scholar is required to pursue during his tenure special higher studies in the Engineering Laboratory, under the direction and to the satisfaction of the Professor.

3.—PRIZES.

Besides the class Prizes, and a number of Prizes given by the different Professors for particular kinds of merit, there are others which the generosity of public-spirited individuals has founded for the encouragement of learning in the University.

The names of the Prizemen for Session 1903-1904 will be found in the Degree and Prize List.

INDEX.

FOUNDATION.	NATURE OF PRIZE.	AWARDED FOR
Arnott, - - - - -	£25 and £15,	Examinations.
Brunton Memorial, -	£10,	Do.
Buchanan (3), - - -	Books,	Do.
Burnet, Lindsay, - -	Silver Medal.	Research.
Cleland, - - - - -	Gold Medal,	Examinations.
Cleland & Rae Wilson,	Four Gold Medals,	Do.
Cobden, - - - - -	£20 and Silver Medal (triennial),	Essay.
Coulter, - - - - -	Two at £5 each,	Essays.
Cowan, - - - - -	Three Gold Medals,	Examinations.
Cunninghame, - - -	Gold Medal,	Do.
Dickson Prize, - - -	Books,	Do.
Dobbie-Smith, - - -	Gold Medal,	Essay.
Dowanhill, - - - -	£20 and £10 (biennial),	Elocution.
Ewing, - - - - -	Gold Medal (biennial),	Essay.
Findlater, - - - - -	£38,	Examination.
Gartmore, - - - - -	Gold Medal (biennial),	Essay.
Gladstone Historical -	£21 (biennial),	Examination.
Gladstone Memorial, -	£5 in Books,	Do.
Harvey, George, - - -	£14,	Do.
Henderson, - - - - -	£21,	Essay.
Jamieson, - - - - -	£10,	Examination.
Jeffrey, - - - - -	Gold Medal,	Do.
Kirk Memorial, - - -	£14,	Do.
Logan, Thos., Memorial,	Gold Medal and £12,	Do.
Luke Historical, - - -	£9 (biennial),	Do.
Macfarlan and Cook, -	£21,	Do.
Macleod, - - - - -	Gold Medal,	Do.
Muirhead, - - - - -	Books,	Do.
Muirhead, G. Roger, -	£2 5s.,	Do.
Nichol Memorial, - - -	Books,	Do.
Reid, John, - - - - -	£25,	Original Research.
Ross, Robert (2), - - -	Med., books, or money,	Examinations.
Scott-Macfarlan, - - -	Gold Medal,	Examination.
University, - - - - -	Silver Medal,	Essay.
Walker (4), - - - - -	Books, etc.,	Examinations.

ARNOTT PRIZES.—Founded in 1869, by Dr. Neil Arnott of London, who presented to the Senate the sum of £1,000 to found a Prize, or Prizes, for the encouragement of the study of Natural Philosophy among the Medical students of the University.

By resolution of the Senate of date April 10, 1873, the following regulations were adopted :—

1. That there shall be two separate examinations—one in General Physics, for students of the first and second years of their Medical studies ; the other for students of the third and fourth years, in Physiological Physics, or the application of the doctrine of General Physics to Physiological Science.

2. The knowledge required for the second of these examinations being much more extensive, and of a much higher order than that required for the first, and being the kind of knowledge of which it is most important to encourage the cultivation, as not only useful in the practice of the Medical Art, but eminently fitted to advance the Physiological Sciences ; that a sum of not less than Twenty-five pounds be offered annually, in one or several sums, as circumstances may require, to the student or students who excel in the second examination.

3. That the remaining portion of the revenue derived annually from Dr. Arnott's donation be offered in the same way to the student or students who excel in the first examination.

4. That the first examination be under the superintendence of the Faculty of Arts, with the Professors of Physiology and of Anatomy as Assessors.

5. That the second examination shall be under the superintendence of the Medical Faculty, with the Professors of Natural Philosophy and of Mathematics as Assessors.

6. That all candidates shall, at the commencement of each session, intimate their intention to the Assistant Clerk (Matriculation Office) ; and that, to prevent unqualified persons from coming forward, each candidate shall produce satisfactory evidence of his having attended a Course of Lectures on Natural Philosophy, or of having been a pupil in a Laboratory where Practical Physics or Practical Physiology is taught ; or, failing of these qualifications, he shall deposit the sum of ten shillings, which shall be forfeited if his examination marks fall below the average standard.

7. That every candidate who passes creditably the first examination shall be thereby entitled to come forward for the second, without being obliged to deposit the sum of ten shillings.

8. That no prize shall be awarded without sufficient merit being shown, and that in the event of one or more of the prizes on any occasion not being awarded, the amount shall be added to the principal sum.

The examination will be in writing, and will be held on Saturday, the 1st October, 1904, in the Examination Hall, at 2 P.M. Intending candidates to give in their names to the Assistant Clerk (Matriculation Office) on or before 14th September.

BRUNTON MEMORIAL PRIZE.—Founded in 1879, in memory of the late Duncan M. Brunton, M.A., M.B., Paisley, a distinguished graduate of this University, who died on 16th November, 1876, of fever, contracted in the diligent discharge of his professional duties in the Royal Infirmary of Paisley. The Committee of Subscribers paid over to the Senate the sum of £300, the interest of which is to be given annually to the most distinguished graduate in Medicine of the year.

BUCHANAN PRIZES.—A Bursary was founded in 1866, in recognition of the eminent services of Robert Buchanan, LL.D., as Professor of Logic and Rhetoric in the University during the long period of forty years. The fund consists of a sum of £314 raised by subscription. The Buchanan Bursaries having been founded under the Will of Professor Buchanan, the proceeds of this fund are now, with the sanction of the subscribers, applied to the purchase of books, which are annually awarded to the most distinguished students in the classes of Logic, Moral Philosophy, and English Literature.

LINDSAY BURNET SILVER MEDAL.—In 1901 the relatives of Mr. Lindsay Burnet, Engineer in Glasgow, who died on 14th March, 1895, founded this Medal to his memory, and also as a memorial of the respect which he entertained for Archibald Barr, D.Sc., Professor of Civil Engineering and Mechanics, and for his work in the University. The following are the regulations:—

The Medal shall be awarded to a student in regular attendance at the University for a thesis descriptive of a research upon a subject connected with The Properties or the Utilisation of Fuel, The Generation or Properties of Steam, The Principles of Thermodynamics, or The Operation of Heat Engines.

The research shall be conducted by the candidate in the Engineering Laboratories of the University, but in exceptional cases investigations requiring the use of machines or apparatus not provided in the Laboratory may be conducted in part elsewhere under such conditions as may in each case be sanctioned by the Professor of Engineering.

The Professor of Engineering may sanction the employment of such assistance, if any, as he may in each case deem necessary for the efficient carrying out of the research, and shall regulate the use of apparatus belonging to the University as regards the time when it shall be at the disposal of the candidate and the manner in which it may be employed.

The Senate shall from time to time issue regulations regarding the standing of students who shall be eligible to compete for the Medal, the form which the theses shall take, the date on or before which the theses must be submitted, and other details.

All matriculated Engineering Students and all University or other Research Students may compete; any Thesis submitted

must be a description of an experimental research conducted in accordance with the foregoing regulations, and must be sent to the Clerk of Senate not later than 13th October.

The Medal shall be awarded by the Senate after receiving a report from the Professor of Engineering and any assessor or assessors whom the Senate may have appointed to act with him.

The Senate may withhold the Medal in any year in which, in their opinion, no thesis of sufficient merit has been submitted.

The Professor of Engineering shall have the power to prescribe a particular subject or to limit the range of subjects upon which theses may be presented in any year; and, farther, with a view to avoiding any undue interference with other researches, or with the general routine work of the Laboratory, he shall have power to prescribe the particular subject or range of subjects with which any individual candidate may deal.

The theses shall become the property of the University, and may be preserved in the Engineering Departmental Library or elsewhere as the Senate may direct, and the Senate may grant to students or others access to the theses under such conditions as they may from time to time prescribe. At all reasonable times the candidate shall have access to his own thesis for reference.

All results obtained in researches conducted in competition shall be subject, as regards rights of publication, to the general conditions applicable to work done in the University by research students and to any special regulations that may be made relating to work conducted in the Engineering Laboratory.

Should any new Chair or Chairs in Engineering Science be instituted in the University, the Professor whose laboratory courses are, in the opinion of the Senate, most closely identified with the general application of thermodynamics to engineering practice shall be deemed to be the Professor of Engineering for the purposes of this foundation.

CLELAND AND RAE WILSON GOLD MEDALS.—Dr. James Cleland, Superintendent of Public Works in Glasgow, who died 14th October, 1840, founded a Gold Medal of the value of Ten Guineas, to be bestowed in alternate years on a student of Divinity, and a student of Natural Philosophy, as a prize for the best Essay on any subject to be prescribed by the Principal and Professors of the University.

Dr. William Rae Wilson of Kelvinbank, who died 2nd June, 1849, founded a Gold Medal to be bestowed upon the Divinity student who should produce the best Essay on the Life of Christ.

These foundations are now regulated by Ordinance No. 97 of the Universities Commission (1889). The Cleland Gold Medal, not exceeding ten guineas in value, is awarded to the most distinguished student in the class of Natural Philosophy in each year. The remainder of the free income of the Cleland Foundation is added to

the total free income of the Rae Wilson Foundation, to provide four Gold Medals of equal value. These medals are awarded in each year as follows:—One to the most distinguished student in each of the classes of (1) Divinity, (2) Ecclesiastical History, (3) Hebrew and Semitic Languages, and (4) Divinity and Biblical Criticism. In the event of there being no student of sufficient distinction in any of these classes, the proportion of the income for that year may be applied towards the promotion of theological study in such manner as the Senate may decide.

COBDEN PRIZE.—This prize of the value of £20, together with a silver medal, will be offered by the Cobden Club, London, every third year for an essay on some subject connected with political economy. The subject is to be fixed by the two adjudicators, one of whom is appointed by the University and the other by the donors. Members of the University of not more than six years' standing may be competitors. The prize will be awarded in 1905 and thereafter triennially.

COULTER PRIZES.—In 1787 Mr. James Coulter, merchant in Glasgow, bequeathed £200 to the University, "the annual proceeds to be applied in premiums, one or more, either pecuniary or honorary, for the encouragement of Composition and Elocution, upon subjects of the Faculty's choosing." The interest of this sum is now divided into Two Prizes of £5 each; the one to be given in alternate years for a Sermon or Theological Essay, and for an Essay on Mental Philosophy and English Literature, the other to be given annually for a translation from some Classical Author, or other composition connected with Classical Literature. The competition for these prizes is open to all matriculated students of the University.

COWAN GOLD MEDALS.—In 1836 Dr. Cowan of Sunderland presented to the University the sum of £400, the interest to be applied annually in the purchase of Two Gold Medals of the value of about £10 each, to be awarded to the two students who may distinguish themselves most in the Greek and Latin Examination upon the Blackstone; and shortly afterwards (1839) the same gentleman presented the University with an additional sum of £105, the interest to be expended annually in the purchase of a Gold Medal of the value of £5, to be awarded to the best student in the Humanity Class.

The examination for Dr. Cowan's Blackstone Medals will be held early in November, 1904. Competitors to be eligible must be public students in some curriculum class in the Faculty of Arts.

For the Greek Medal—1. A candidate must have received a Certificate in the Greek Class for session 1903-1904.

2. Every candidate will be required to answer a Preliminary Paper, consisting of unprepared passages for translation.

3. Two or more candidates, selected by this paper, will on a subsequent day be examined orally in the books which they offer.

4. Each selected candidate must offer for the Oral Examination (i.) one Verse Subject, (ii.) one Prose Subject. (i.) The Verse Subject must be *either* five books of Homer, *or* two Greek plays (tragedies or comedies). (ii.) The Prose Subject may be any *one* of the following :—(a) Herodotus—two books ; (b) Thucydides—two books ; (c) Plato—two dialogues, or two books of the *Republic* ; (d) Aristotle—two books of the *Ethics*, of the *Politics*, or of the *Rhetoric*.

5. Any member of the Greek Class for session 1904-5 is at liberty to go in for the Preliminary Paper, even though he is not a candidate for the Cowan Medal ; and if he acquits himself with distinction in that paper, his name will be mentioned when the award of the Medal is announced.

For the Latin Medal competitors must in the session preceding the competition have received a public ticket of the Latin Class.

Notice is hereby given, that at the examination for Dr. Cowan's Medals in November, 1892, and thereafter, no one will be admitted to compete for the Greek Cowan Medal who has attended for more than three sessions, or who, after passing the preliminary examination in Greek, has attended for more than two sessions in any Scottish University, and no one shall be admitted to compete for the Latin Cowan Medal who has attended for more than two sessions, or who, having been admitted to the Senior Class in consequence of having passed the preliminary examination in Latin, has attended for more than one session in any Scottish University.

CUNNINGHAME GOLD MEDAL.—In 1886 Mr. Andrew Cunningham, Town Clerk Depute of Glasgow, bequeathed to the University, *inter alia*, £350, free of legacy duty, with directions that the annual revenue thereof should be applied in purchasing a Gold Medal as a prize in the class of Mathematics.

DICKSON PRIZE.—In 1895, when the late Professor Dickson retired from the Chair of Divinity, his former students presented him with a testimonial consisting of silver plate and a cheque for £120. This sum was handed over by Dr. Dickson to the University Court, that the free annual income might be applied in the form of a prize of serviceable books to accompany the gold medal given to the most distinguished student of the year in the class of Divinity. In accordance with the wish of the subscribers the prize has been called the Dickson Prize.

DOBIE-SMITH GOLD MEDAL.—In 1881 Mr. Thomas Smith, L.R.C.S.E., Heriot Hill House, Edinburgh, presented to the University, in memory of his wife, lately deceased, the sum of £150 for the purpose of founding a University Gold Medal of about £10 in value, to be given biennially for the encouragement of the study of Botany. The competition is open to all Matriculated Students of the session in which the Medal is to be awarded ; the subject of competition—

which shall always be a Botanical subject—to be selected by the Professors of Botany and Natural History, and announced at least eighteen months before the date fixed for receiving essays.

The next competition to be on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and each essay to be accompanied by an illustrative series of macroscopic and microscopic specimens. Essays to be given in to the Principal on or before 30th September, 1904.

DOWANHILL PRIZES.—Two prizes, one of £20, and the other of £10, for “Excellence in the Art of Oratory and Declamation, and in the practice of a refined and pleasing Delivery, and in reading the Scriptures,” founded in 1865 by Mr. John Buchanan, merchant in Glasgow, as sole Trustee, nominated and appointed by his deceased brother, Mr. Thomas Buchanan, also merchant in Glasgow, and in order to carry out the intentions of his said brother. These prizes are awarded annually to Students of Divinity, at the termination of the third or fourth session of their attendance on the Hall, by the votes of their fellow-students. Competitors must have attended for two sessions an Elocution Class, taught by a master approved by the Senate.¹

The above foundation is in memory of the late Mr. James Buchanan of Dowanhill, of Ellison MacCallum, his wife, and of Mr. George Buchanan of Stanley, Perthshire, the Father, Mother, and elder Brother of the Founder.

EWING GOLD MEDAL.—In 1828 James Ewing, LL.D., of Levenside, presented the University with £100 for a Gold Medal to be given every second year for the best essay on an historical subject. The Gartmore and Ewing Medals are to be given alternately.

FINDLATER (DIVINITY) SCHOLARSHIP OR PRIZE.—This Scholarship, consisting of the free annual proceeds of the sum of £1,000 gifted to the Senate by Mr. Alexander Findlater, Dublin, was founded in 1871. The following regulations have been adopted by the Senate:—

1. The Findlater Scholarship shall be awarded annually by competition.

2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.

The next competition will take place in October, 1904, and March, 1905. Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 12th October, 1904.

¹ See note under Faculty of Theology, *supra*.

GARTMORE GOLD MEDAL.—In 1788 Mr. Robert Graham of Gartmore presented the University with £100 for the institution of a Prize for the best essay on any subject intimately connected with the nature, foundation, advantages, and support of political liberty. This Prize—a Gold Medal—is open to the competition of all students of the University, and is given biennially. The founder directed that the surpluses should be accumulated till a capital was formed sufficient to found a Bursary.—See Gartmore Bursary, p. 303.

GLADSTONE HISTORICAL PRIZE.—Founded in 1880 by the Gladstone Club, in commemoration of the election in 1877 of the Right Honourable William Ewart Gladstone, M.P., as Lord Rector of Glasgow University, and in recognition of his distinguished career as a scholar, author, statesman, and orator. The following are the regulations:—

1. The prize shall be given for the best examination in English History.
2. The examination shall be held biennially.
3. The value of the Prize shall be Twenty Guineas.
4. The competition shall be open to Graduates of Glasgow University of not more than two years' standing from the date of their first graduation. The next competition will take place in January, 1906. Names of competitors to be given in to the Assistant Clerk (Matriculation Office) not later than 1st December, 1905.

GLADSTONE MEMORIAL PRIZE.—In November, 1899, the Committee of the Gladstone Memorial Fund resolved to devote the revenue accruing from the surplus of the Fund to the establishment of Gladstone Memorial Prizes to be given in Books at the Universities of Oxford, Cambridge, and London, at the Scottish Universities, and the University Colleges in Great Britain, for special proficiency in History, Political Science, and Economics. In this University the prize, in value Five Pounds, will be awarded annually. Either graduates of this University who have taken the degree of M.A. with Honours, or students presenting themselves for examination for the Degree of M.A. with Honours in Economic Science, may be candidates; but no student shall be eligible after the expiration of more than six winter sessions from the time of his or her first entering a class qualifying for the Degree of M.A., and no student who has once obtained the prize may compete a second time. The subjects of examination shall be the same as those prescribed for Honours in Economic Science, and the examination shall be held at the same time as the autumn examination for Degrees with Honours in Economic Science. The Prize is awarded by the Senate on the report of the Examiners for Degrees, and it is competent for the Senate to award it to the holder of a Fellowship, or Scholarship, or Bursary. The Prize will be open to competition in October, 1904.

GEORGE HARVEY PRIZE.—Founded in 1874, by the liberality of a donor who has withheld his name, in memory of the late Mr. George Harvey of No. 9 Park Quadrant, Glasgow. Present annual value £14, which is given as a prize in the class of Civil Engineering, to the student who shows, during the session, the greatest proficiency in the department of applied Mechanics and Shipbuilding. Any accumulation of surplus income to be given as a second prize of £5 or £10 in the same department.

HENDERSON PRIZE.—In 1850 Mr. John Henderson of Park, merchant in Glasgow, instituted an annual prize of the value of £21 sterling, to be called the "Henderson Prize," for the best Essay on some subject relating to the Divine Authority and Practical Value and Influence of the Sabbath. The Universities Commission (1889), by Ordinance No. 101, altered the conditions and directions affecting this prize. It is now to be awarded for the best essay on a subject to be fixed by the Faculty of Divinity, provided always that in every third year at least, the subject shall relate to the Divine authority and practical value and influence of the Sabbath. The competition is to be open to Masters of Arts of not more than five years' standing, as well as to matriculated students of the University.

JAMIESON PRIZE.—In 1854 a subscription list was opened for the foundation of a prize or scholarship in Divinity, but the commercial difficulties of the following years prevented the purpose of the promoters being carried out at the time. In 1881 the sum subscribed, amounting, with accumulated interest, to £319 6s. 4d., was handed over to the University, and the Senate resolved to connect it with the name of the Convener of the Committee of subscribers, the Rev. Robert Jamieson, D.D., formerly minister of St. Paul's Church, Glasgow.

The following regulations have been adopted by the Senate :—

1. The Jamieson Prize shall be awarded annually by competition.
2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.
3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.
4. The Prize shall not be awarded to any one who has gained a Scholarship or Fellowship in Divinity.

The next competition will take place in October, 1904, and March, 1905. Names of candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 12th October, 1904.

JEFFREY GOLD MEDAL.—Mr. Francis Jeffrey, advocate (afterwards Lord Jeffrey), on his re-election as Lord Rector of this Uni-

versity, in 1821, gave a prize of a Gold Medal and continued to do so annually.

In 1849 Lord Jeffrey presented the University with the sum of £120 for a Gold Medal to be awarded each session to the most distinguished student of the Greek Class.

KIRK MEMORIAL PRIZE.—A sum of £402 was collected in 1893 by various friends of the late Alexander Carnegie Kirk, LL.D., formerly President of the Institution of Engineers and Shipbuilders in Scotland, for the purpose of founding a prize in his name, in connection with the Naval Architecture Class in the University. The free annual income of the foundation is awarded annually as a prize. The competition is open to students who have, in the session of competition, attended the Senior Class of Naval Architecture, and who are completing the Final Science Examination under Ordinance No. 23, Glasgow No. 2, embracing (a) Naval Architecture with Marine Engineering, and (b) Practical Work in Ship and Marine Engineering Drawing, the award being determined by the proficiency shown in (a) and (b). Should two or more candidates be reported equal, the Senate may divide the Prize, or prescribe a further examination. The subscribers have given the Senate power to convert this Prize into a Bursary, should it be found expedient or advantageous to do so at any future time.

THOMAS LOGAN MEMORIAL MEDAL AND PRIZE.—Mr. David Logan, fruiterer, Glasgow, who died on 19th May, 1886, directed his trustees to pay to the Senate the sum of £500, free of legacy duty, to found a Gold Medal and Prize in memory of his brother, Thomas Logan. The Medal is of the value of £5, and the Prize consists of the balance of the annual proceeds given in money. They are awarded annually in April to the graduate in Arts of the preceding year who obtained the highest marks in the Degree Examinations.

LUKE HISTORICAL PRIZE.—A sum of £150 was collected in 1863 by various friends of the late Mr. George Rankin Luke, in Oxford and Scotland, for the purpose of founding a prize in his name, in connection with the University of Glasgow, where he studied during two years of his brilliant career as a scholar.

The Senate, with the sanction of the promoters of this fund, resolved to employ it to found a biennial Prize, for excelling in a competitive examination on general subjects connected with Ancient History and Literature. The examination to be conducted either altogether in writing, or by combination of writing and *vivâ voce* questions; and the determination to rest with the Professors of Humanity and Greek, in conjunction, in case of uncertainty, with any one of their colleagues whom they may desire to nominate.

The Prize on the above foundation is given to the student who

acquits himself best in an examination in Ancient Greek and Roman History.

The next competition will be held in January, 1905. In addition to historical questions, original passages will be given for translation from the standard authors. The competition is open to all students who shall have attended during session 1903-4 any Greek or Latin Class.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st December, 1904.

MACFARLAN AND COOK TESTIMONIAL PRIZE.—The Macfarlan and Cook Testimonial Prize of Twenty Guineas, instituted in 1847 (along with a similar Prize in the University of St. Andrews), by the friends of the late Principal Macfarlan, D.D. of this University, and Professor George Cook, D.D. of St. Andrews, as a memorial of the services rendered to the Church of Scotland by these eminent clergymen, is bestowed annually on the Theological Student, of three years' standing, who shall pass the best examination in Greek, Moral Philosophy, Hebrew, Ecclesiastical History, and Divinity.

MACLEOD MEDAL.—In 1895 Lady Macleod instituted this Gold Medal in memory of her husband, Sir George Husband Baird Macleod, M.D., LL.D., Regius Professor of Surgery in this University from 1869 to 1892. The competition is open only to those who have attended the classes of Systematic and Operative Surgery taught by the Regius Professor of Surgery in the University, and women students are not eligible. The Medal is awarded yearly to the student who most distinguishes himself in the work (written, oral, and practical) of these classes.

MUIRHEAD PRIZES.—In 1776 Messrs. John Muirhead of Teggetsheugh, and Peter Muirhead, minister of Dysart, brothers of the deceased Mr. George Muirhead, Professor of Humanity in Glasgow College, presented a donation of £100, the interest to be applied in purchase of books to be awarded as prizes to those students attending the Humanity Class who shall be thought most deserving.

GEORGE ROGER MUIRHEAD PRIZE.—In 1896 a sum of £100 was bequeathed to the University by Mrs. Elizabeth Lockhart Roger or Muirhead, Glasgow, to found a prize in the Chemistry class in memory of her son, George Roger Muirhead, who studied Chemistry in this University. The free annual income is paid annually to the medallist of the Chemistry class for the year.

NICHOL MEMORIAL PRIZE.—In 1895 Mrs. Jack presented the University with the sum of £150 for the purpose of founding a prize, to be called the "Nichol Memorial Prize," in memory of her brother, John Nichol, LL.D., Professor of English Language and Literature in this University from 1862 till 1889, who died in

London on 11th October, 1894, and especially in commemoration of the active interest which he took in the teaching of English Literature to women in Glasgow and elsewhere. The free income of the fund is applied annually to providing a first prize for the English Literature Class in Queen Margaret College.

RAE WILSON GOLD MEDAL.—(See Cleland and Rae Wilson, p. 376.)

JOHN REID PRIZE.—A Prize of the value of £25 was founded in 1882 by Miss Mary Reid, Renfrew Street, Glasgow, in memory of her brother, the late Mr. John Reid, surgeon, 150 Renfrew Street, Glasgow. The prize will be awarded for the best original research conducted in one of the Hospitals or Scientific Laboratories in Glasgow, bearing on any department of Medical Science. The competition is open to registered students of medicine of not less than two years' standing; and to qualified medical men of not more than two years' standing, who (1) are still attached as *bonâ fide* students to one of the Glasgow Medical Schools, who (2) are not engaged in practice, and who (3) undertake to give up the prize if they enter on practice while holding it. All candidates are required to produce evidence of having attended a regular course of instruction, in one of the medical schools of Glasgow, on *four* of the following subjects:—Medicine, Clinical Medicine, Surgery, Clinical Surgery, Materia Medica, Physiology, Pathology—such course of instruction having been received, in whole or in part, within three years of competing for the prize. The prize may be awarded for one, two, or three years, according to the value of the work done.

Further information may be obtained from Mr. John Hurl, jun., writer, 157 St. Vincent Street, Glasgow.

ROBERT ROSS PRIZE.—The late Robert Ross, Esq., writer, Glasgow, by his Will, dated 1880, bequeathed to the Dean and Council of the Faculty of Procurators, Glasgow, the sum of £500, to be held by them in trust, "to the end that the free annual income thereof shall be applied as an annual prize in the form of a medal, of books, or of money, as the Dean and Council may determine, to a student in each of the Scots Law Class and the Conveyancing Class of the University of Glasgow in equal proportions, such prize to be awarded for eminence displayed, either in the general business of the class or in any other manner in which the said Dean and Council may prescribe."

SCOTT-MACFARLAN GOLD MEDAL.—Founded in 1870 by Miss Scott, daughter of the late Rev. Robert Allan Scott, Vicar of Cranwell, Lincolnshire, in fulfilment of her father's intentions.

Mr. Scott, wishing to encourage the study of Greek in the University of Glasgow, of which he was an alumnus, and from which he obtained an Exhibition to Balliol College, Oxford, in 1825,

dedicated to that purpose the sum of £100 for a Gold Medal, to be called the "Scott-Macfarlan Prize for Greek," in memory of Mr. Scott's kinsman, the late Principal Macfarlan, and to be given on the last day of the session in each year to the best scholar in Greek of the session; the medal to be adjudged by the votes of the students of the upper Greek class. As the Jeffrey Medal has long been given to the best student in the senior Greek Class, the "Scott-Macfarlan" Medal is awarded to the best student attending the Honours Greek Class for the first time.

UNIVERSITY MEDAL.—The University bestows annually a Silver Medal for an Essay in Mental Philosophy.

WALKER PRIZES.—Four Prizes (consisting of Books or Instruments) to be competed for each year by students of Civil Engineering and Mechanics, founded in 1857 and 1861 by James Walker, Esq., Civil Engineer, LL.D., F.R.S.S.L and E.

The competition is open to all persons who shall have duly entered themselves as attending the class of Civil Engineering and Mechanics during the current session.

The competitors are examined orally and in writing; and two of the prizes are awarded on the results of the written examinations; the other two by votes of the class.

LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION 1904-5.

A.—FACULTY OF ARTS.

1.—BURSARIES.

The following is a summary of the principal provisions of Ordinance No. 57¹ of the Universities Commission (1889) relating to the Bursary competition:—

The subjects of the examination for open Bursaries in Arts of the first year shall be the subjects prescribed for the Arts Preliminary, of which subjects candidates may select not more than five. Candidates who select Latin, Greek, or Mathematics, must take the papers of the higher standard in those subjects. In determining the marks to be assigned to the several subjects of examination, English, Latin, Greek, and Mathematics shall each have assigned to them double the marks assigned to any other subject, and no candidate shall be credited with marks in any subject in which he

¹ The full text of this ordinance is printed at pp. 274-278.

has not obtained such proportion of the total number of marks assigned to that subject as the Senate may from time to time prescribe.

Additional papers are set in

A. Latin, Greek, Mathematics.

B. French, German, Dynamics.

Of these additional papers candidates are allowed to take *either* two subjects from A., *or* one subject from A. and two from B., *or* three subjects from B.

No Candidate shall, except as hereinafter provided, obtain an open Bursary in Arts who shall not have passed the Preliminary Examination in Arts; provided that it shall be in the power of the Senate, with the approval of the University Court, to admit to an open Bursary in Arts a Candidate who shall have passed in at least three subjects of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the second Preliminary Examination after the date of his admission as Bursar. [This power lapsed in May, 1902.]

No student who has during a winter or summer session attended in any Scottish University any class qualifying in his case for graduation in Arts or Science, shall be eligible to compete for Bursaries of the first year in Arts or Science.

Candidates for Bursaries in Arts which are not awarded by open competition shall present themselves for the Preliminary Examination in Arts, and no Bursary shall, except as hereinafter provided, be awarded to any Candidate who shall not have passed the Preliminary Examination in Arts: provided that it shall be in the power of the Senate, with the approval of the University Court, to admit to a Bursary in Arts not awarded by open competition a Candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as Bursar.

N.B.—For the Bursaries open to women students see pp. 278—281.

FOR STUDENTS ENTERING THE FIRST SESSION IN ARTS.

I. FOR SPECIAL DISTINCTION IN PARTICULAR SUBJECTS.

The Bursaries for special distinction are limited to Students of the first year who have passed the Arts Preliminary, and who have not gained a Bursary for general excellence.

1. *Forfar Bursary*, for special distinction in Classics (Latin and Greek), annual value £36, tenable for four years.

2. *Foundation Bursary*, for special distinction in English, annual value £20, tenable for four years.

3. *Black Bursary*, for special distinction in Mathematics, annual value £19, tenable for four years.

4. *John Clark (Mile-End) Bursary*, for special distinction in French, annual value £30, tenable for four years, for Protestant students, sons or daughters of Protestant parents.

5. *John Clark Mile-End Bursary*, for special distinction in German, annual value £30, tenable for four years, for Protestant students, sons or daughters of Protestant parents.

6. *Buchanan Bursary*, for special distinction in Dynamics, annual value £13, tenable for three years.

II. FOR GENERAL EXCELLENCE.

7. *Ebenezer Brown Bursary*, annual value £38, tenable for three years—open.

8. *Crawford and Brown Bursary*, annual value £19 13s. 4d., tenable for four years—open.

9. *Forfar Bursary*, annual value £36, tenable for four years—open.

10. *(Sir Walter) Scott Bursary*, annual value £25, tenable for four years—open.

11 and 12. *Two Stewart Bursaries*, annual value £15 each, tenable for four years—open.

13, 14, 15, and 16. *Four John Clark (Mile-End) Bursaries*, annual value £30 each, tenable for four years, for Protestant students, sons or daughters of Protestant parents.

17. *Barbour Kilbarchan Bursary*, annual value about £20, tenable for three years, open only to candidates not exceeding 18 years of age from Kilbarchan Public School.

18. *Biggart Memorial Bursary*, annual value £25, tenable for four years, for students preparing for the Ministry of the United Free Church.

19. *Browne (Ayrshire) Bursary*, annual value about £22, tenable for four years, for natives of Ayrshire, or those who have been educated for not less than four years in a school in Ayrshire.

20. *Buchanan (Bellfield) Bursary*, annual value £47, tenable through the whole curriculum, for students preparing for the Ministry of the Church of Scotland.

21. *Cowan Bursary*, value for first year £30, for second year £20, for students who have attended Ayr Academy for at least two years before the date of examination. Apply to Mr. John Douglas, Wellington Chambers, Ayr, before the first day of September.

22. *Archibald Craig Bursary*, annual value £9, tenable for two years, for students who are natives of Eaglesham or Mearns, or who for two consecutive years have attended school in either of these parishes.

23. *Denny Bursary*, annual value £30, tenable for four years, for students from Dumbarton Burgh Academy. [Tenable in any Faculty.]

24. *James Ewing Entrance Bursary*, annual value £20, tenable for four years, for sons of Glasgow merchants. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September.

25. *Forrester Bursary*, annual value about £23, tenable for three years, for natives of Leecroft or Dunblane Parish. Apply to Mr. A. B. Barty, Writer, Dunblane, before the first day of September.

26, 27 and 28. *Three Fullarton of Overton Bursaries*, annual value £22 each, tenable for two years, for students under 25 years of age, from the district of Cunninghame, in Ayrshire. Subjects for Examination—Latin, Elementary Mathematics, and English.

29. *Hamilton Educational Trust Bursary*, annual value £15, tenable for three years, open to pupils attending public or State-aided schools in the Burgh and Parish of Hamilton. Apply to Mr. Patrick Keith, Writer, Hamilton, before the first day of September.

30. *Hannay Bursary*, annual value about £15, tenable for three years, for students preparing for the Ministry of any Evangelical Religious Denomination in Scotland. Apply to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September.

31 and 32. *Two Glasgow Highland Society's Bursaries*, annual value £20 each, tenable for four years, for students of Highland descent. Apply to Mr. Hugh Brown, Junr., 58 St. Vincent Street, on or before the fifteenth day of August.

33 and 34. *Two Hill Bursaries*, annual value £15, tenable for three years, for students from public or State-aided schools under Govan School Board. Apply to Mr. John A. Craigie, 151 Bath Street, before the first day of September.

35, 36, and 37. *Three Glasgow City Educational Endowments Bursaries*, annual value £25 each, tenable for four years, for students from public or State-aided schools in Glasgow. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

38, 39, 40, 41, and 42. *Five Hutchesons' Educational Trust Bursaries*, annual value £20 each, tenable for four years, for students who have attended for at least two years immediately preceding the competition, and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

43 and 44. *Two James Laing Bursaries*, annual value £25 each, tenable for four years, for students of either sex who have been educated for at least three years in a school or schools in Stirlingshire. Apply to Mr. William Jenkins, Writer, Denny, before the first day of September.

45. *Lochhead and Mitchell Bursary*, annual value £33, tenable for four years. Preference to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland.

46, 47, 48, and 49. *Four Marshall Trust Bursaries*, annual value £30 each, tenable for five years, for students of either sex from public or State-aided schools in Lanarkshire or Stirlingshire. Apply to William

Mitchell, LL.D., 134 Wellington Street, Glasgow, before the first day of September.

50. *James Paterson Bursary*, annual value £20, tenable for four years, for students preparing for the Ministry of the Baptist Church.

51. *Patrick Bursary*, annual value £32, tenable for four years, for students from Renfrewshire.

52. *Pollock Bursary*, annual value £37, tenable for three years. Preference to candidates educated in Paisley.

53 and 54. *Two Pratt Bursaries*, annual value £20 each, tenable for four years, for students from the parishes of Wiston, Robertson, or Lamington. Apply to Messrs. Fyfe, MacLean & Co., 115 St. Vincent Street, before the first day of September. [Tenable in any Faculty.]

55 and 56. *Two Ramsay-Walker Bursaries*, annual value £12 each, tenable for four years, for students preparing for the Ministry of the Church of Scotland. Preference to kin of Founder: whom failing, to students named Walker: whom failing, to natives of Glasgow.

57. *Stearnsen of Dalry Bursary*, annual value £33, tenable for four years, for students preparing for the Ministry of the Church of Scotland. Preference to natives of Dalry in Ayrshire: whom failing, to natives of Bannockburn or St. Ninians in Stirlingshire.

58. *William Whyte Bursary*, annual value £25, tenable for four years, open to students who have attended and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Messrs. Hill & Hoggan, 194 Ingram Street, on or before the first day of September. [Tenable also in Law or Medicine.]

59. *James Thomson Philosophical Bursary*, annual value £10, tenable for two years. The subjects of examination are the same as the Mental Philosophy subjects for the Lorimer Bursary, No. 65.

60, 61, and 62. *Three James A. Paterson Bursaries*, annual value £35, £25, and £20 respectively, tenable for three years, for students preparing for the Ministry of the United Free Church. The subjects of examination are Greek and Hebrew, as detailed at page 334.

FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

Nos. 7, 8, 9, 10, 11, 12, 20, 26, 27, 28, 43, 44, 57, 60, 61, 62, in the preceding list.

63. *Park General Council*, annual value £20, tenable for two years—open.

64. *Lorimer Bursary*, annual value £24, tenable for three years. The examination will take place along with the Arts Preliminary Examination in Mathematics, but may embrace higher papers.

65. *Lorimer Bursary*, annual value £24, tenable for three years. Subjects of examination 1. *Logic*: (a) Descartes, *Meditations* (Veitch's translation); (b) Ferrier, *Lectures on Greek Philosophy*, the Pre-Socratic period. 2. *English Literature*: (a) Shakespeare's *As You Like It*; (b) Tennyson's *Idylls of the King*.

FOR STUDENTS IN ARTS WITHOUT RESTRICTION TO A PARTICULAR
SESSION.

66. *Monteith Bursary*, annual value about £14, tenable for three years. Open only to natives of Scotland and sons of Scottish parents. Examination in German.

67. *Muir Junior Bursary in Mathematics*, annual value £8, tenable for sessions 1905-6, 1906-7. The appointment will be determined by the results of the written examinations passed in the course of the session 1904-5 by the public students of the Ordinary Class of Mathematics.

68. *Muir Senior Bursary in Mathematics*, annual value £16, tenable for session 1905-6. The appointment will be determined by the results of the written examinations passed in the course of the session 1904-5 by the public students of the Intermediate Honours Mathematical Class.

69. *Lanfne Bursary in Economic Science*, annual value £27, tenable for two years.

70. *Lanfne Bursary in History*, annual value £27, tenable for two years.

71. *Lanfne Bursary in Semitic Languages*, annual value £27, tenable for two years.

72. *Malcolm Kerr Bursary*, annual value £22, tenable for three years. The subjects of Examination are in Natural Philosophy, and are the same as for the ordinary degree of M.A.

73. *James Ferguson Bursary*, annual value £95, tenable for two years. Preference, *ceteris paribus*, to natives of Lesmahagow or Muirkirk, or Pictou, Nova Scotia, and also to students of the name Ferguson or Weir, or to the kin of the Founder. The examination is the same as that for Honours in Classics.

FOR STUDENTS IN ARTS, OR LAW, OR MEDICINE.

74. *Macdonald Bursary*, annual value £15, tenable for four years, for miners under the age of 21 years. Examination in writing, arithmetic, geography, grammar, and history. For the *William Whyte Bursary*, see No. 58, and for the Andrew and Bethia Stewart Bursaries, p. 341.

2.—FELLOWSHIPS, SCHOLARSHIPS, ETC.

75. *George A. Clark Scholarship in Mental Philosophy*, annual value about £168, tenable for two years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the M.A. degree with Honours in Mental Philosophy, but no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. degree.

76. *John Clark (Mile-End) Scholarship in Mental Philosophy*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons or daughters of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

77. *Scott Scholarship*, annual value £80, tenable for two years. Open to Glasgow Masters of Arts. Examination in Mental Philosophy and in English Literature (not Language) from Chaucer downwards.

78. *Armagh Bursary in Mental Philosophy*, annual value £48, tenable for two years in Theology, Law, or Medicine. Open to students who are presenting themselves for the final examination for the degree of M.A. with Honours in Mental Philosophy.

79. *William Ewing Fellowship in Mathematics and Natural Philosophy*, annual value £100, tenable for three years. Open to Glasgow Masters of Arts.

80. *John Clark (Mile-End) Scholarship in Mathematics and Natural Philosophy*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons or daughters of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

81. *Armagh Bursary in Mathematics and Natural Philosophy*, annual value £48, tenable for three years in Theology, Law, or Medicine. Open to students who are presenting themselves for the final examination for the degree of M.A., with Honours in Mathematics and Natural Philosophy.

82 and 83. *Two Breadalbane Scholarships*, annual value £55, tenable for three years. Open to Glasgow Masters of Arts or Bachelors of Science in Engineering Science, who have graduated within a period of not more than three years preceding the competition.

84. *John Clark (Mile-End) Scholarship in Semitic Languages*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons or daughters of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

85. *George A. Clark Scholarship in English (Language, Literature, and British History)*, annual value about £168, tenable for four years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the M.A. degree with Honours in English, but no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. degree.

86. *Luke Fellowship*, annual value £95, tenable for three years. Open to Glasgow Masters of Arts. For subjects of examination (English Literature and History) see p. 363.

87. *John Clark (Mile-End) Scholarship in Economic Science*, annual value £50, tenable for three years. Open to all Protestant students of good moral character, sons or daughters of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

88. *Gladstone Memorial Prize* of books to the value of £5 is open to graduates of this University who have taken the degree of M.A. with Honours or to students presenting themselves in October, 1904, for examination for the Degree of M.A. with Honours in Economic Science, but no one whose Arts course began before session 1898-9 is eligible. See p. 380.

89. *Mackay-Smith Scholarship in Chemistry*, annual value £48, tenable for two years, for students of Chemistry in session 1904-5 or a previous session.

90. *Mackay-Smith Scholarship in Natural Philosophy*, annual value £48, tenable for two years, for students of Natural Philosophy in session 1904-5 or a previous session.

91. *Snell Exhibition*, annual value about £133, tenable for three years. Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as undergraduate students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland."

92. *Luke Historical Prize* of £9 open to all students who have attended, during session 1903-4, any Greek or Latin class.

93. *Thomas Logan Memorial Medal and Prize* of £12 will be awarded in April, 1905, to the graduate in Arts of the year 1904 who shall have obtained the highest marks in the Degree examinations.

DATES OF EXAMINATIONS.

The examinations for Bursaries Nos. 1 to 58 and 63 in the above list will commence on Friday, 23rd September, at 9 a.m. The examination papers will be given in the following order, viz. :—

On Friday,	23rd September,	9—11 a.m.,	English (1st paper).
"	"	12— 2 p.m.,	Higher Latin (1st paper).
"	"	3— 6 p.m.,	Lower Latin.
On Saturday,	24th	9—11 a.m.,	English (2nd paper).
"	"	12— 2 p.m.,	Intermediate and Higher Mathematics (1st paper).
"	"	3— 6 p.m.,	Lower Greek.
On Monday,	26th	9—11 a.m.,	Higher Latin (2nd paper).
"	"	12— 2 p.m.,	Intermediate and Higher Mathematics (2nd paper).
"	"	3— 6 p.m.,	Lower Mathematics.
On Tuesday,	27th September,	9—11 a.m.,	Higher Greek (1st paper).
"	"	12— 1.30 p.m.,	French (1st paper).
"	"	3— 6 p.m.,	Dynamics.
On Wednesday,	28th	9—11 a.m.,	Higher Greek (2nd paper).
"	"	12— 2 p.m.,	French (2nd paper).
"	"	3— 4.30 p.m.,	German (1st paper)
On Thursday,	29th	9—11 a.m.,	German (2nd paper).
"	"	12— 1.30 p.m.,	Italian (1st paper).
"	"	12— 2 p.m.,	German (additional paper).
"	"	3— 5 p.m.,	Italian (2nd paper).
"	"	3— 5 p.m.,	French (additional paper).
On Friday,	30th	9—11 a.m.,	Mathematics (additional paper).
"	"	12— 2 p.m.,	Latin (additional paper).
"	"	3— 5 p.m.	Greek (additional paper).
On Saturday,	1st October,	12— 2 p.m.,	Dynamics (additional paper).

The examination for Bursary No. 59 on Wednesday, 28th September, at 2 p.m.; for Bursary No. 65, on Wednesday, 28th September, at 2 p.m.; and on Saturday, 1st October, at 2 p.m.; for Bursaries Nos.

60 to 62, on Tuesday, 18th Oct., at 9 a.m., and Wednesday, 19th Oct., at 2 p.m.; for Bursary No. 64, on Saturday, 24th September, at 12 noon, Monday, 26th September, at 12 noon, and Friday, 30th September, at 9 a.m.; for Bursary No. 66, on Wednesday, 28th September, at 3 p.m., Thursday, 29th September, at 9 a.m. and 12 noon; for Bursary No. 72, on Friday, 30th September, at 9 a.m. and 2 p.m. The examinations for the Bursary No. 74 will be held Thursday, 22nd September, at 9 a.m. and 2 p.m.

The examinations for the Bursaries, Scholarships, and Fellowships No. 73 and Nos. 75 to 88 inclusive, in the above list, will be held along with the examinations for Honours in the several departments for the Degree of M.A. in September-October, 1904; for No. 89 on Monday, 27th March at 2 p.m.; for No. 90, on Friday, 31st March, at 9 a.m. and 2 p.m., and Saturday, 1st April, at 2 p.m.; for No. 91 along with the examinations for Honours, in March and April, 1905, the English paper being taken on Saturday, 1st April, at 9 a.m.; and for the Prize No. 92 in January, 1905.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 to 64 inclusive, and Nos. 66 and 74 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Monday, 5th September; and for Bursaries Nos. 65, 72 and 73, not later than Wednesday, 14th September; and for Bursaries No. 69 to 71, not later than 7th March, 1905. A schedule, which is to be filled up by each candidate, may be obtained from the Assistant Clerk (Matriculation Office). Candidates for the Bursary No. 21 must, besides, give in their names to Mr. John Douglas, Wellington Chambers, Ayr, before the first day of September; for No. 24 to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September; for No. 25, to Mr. A. B. Barty, Writer, Dunblane, before the first day of September; for No. 29, to Mr. Patrick Keith, Writer, Hamilton, before the first day of September; for No. 30, to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September; for Nos. 31 and 32, to Mr. Hugh Brown, Jun., 58 St. Vincent Street, before the fifteenth day of August; for Nos. 33 and 34, to Mr. John A. Craigie, 151 Bath Street, before the first day of September; for Nos. 35 to 42, to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September; for Nos. 43 and 44, to Mr. William Jenkins, Writer, Denny, before the first day of September; for Nos. 46 to 49, to William Mitchell, LL.D., 134 Wellington Street, before the first day of September; for Nos. 53 and 54, to Messrs. Fyfe, MacLean & Co., 115 St. Vincent Street, before the first day of September; and for No. 58, to Messrs. Hill & Hoggan, 194 Ingram Street, before the first day of September.

Candidates for the Fellowships, etc., Nos. 75 to 88 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 14th September; for No. 89 and 90, not later than 7th March, 1905; for No. 91, candidates are expected to inscribe their names in a book kept at the Clerk of Senate's office for the purpose, not later than the 1st December, 1904; and for No. 92 before 1st December, 1904.

B.—FACULTY OF SCIENCE.

Open to Competition during Session 1904-1905.

1 and 2. *Two Strang Bursaries*, annual value £20, tenable for three years. Open to students of Engineering Science.

3 and 4. *Two Agricultural College Bursaries*, annual value £50 and £40, tenable for three years, for students of Agriculture.

5. *Lorimer Bursary in Mathematics*—see No. 64 under Faculty of Arts.

6 and 7. *Two Metcalfe Bursaries*, each of annual value £25, tenable for two years. Open to students entering the class of Chemistry or of Intermediate Honours Mathematics.

8. *Lloyd's Register Scholarship*, annual value £50, tenable for three years. Open to candidates intending to become students of Naval Architecture whose age does not exceed 23 years.

9. *Malcolm Kerr Bursary*, annual value £22, tenable for three years. The subjects of examination are in Natural Philosophy, and are the same as for the ordinary degree of M.A.

10. *Mackinnon Scholarship in Natural History (with Comparative Anatomy)*, £56 in value, tenable for one year—open to all matriculated students.

11 and 12. *Two Broadalban Scholarships*—see Nos. 82 and 83 under Faculty of Arts.

13. *George Young Bursary*, annual value £35, tenable for one year, for students in the class of Civil Engineering. To be awarded in October, 1904, to the eligible candidate with the best record in the First Science Examination.

14 and 15. *Muir Bursaries in Mathematics*—see Nos. 67 and 68 under Faculty of Arts.

16 and 17. *Muir Bursaries in Civil Engineering and Mechanics*, each of annual value £12 10s., tenable for session 1905-6. See p. 332.

18 and 19. *Mackay Smith Scholarships*—see Nos. 89, 90, under Faculty of Arts.

20. *Kirk Memorial Prize* of £14 for students completing Final Science Examination for B.Sc. on the side of Naval Architecture. See p. 382.

21. *James Watt Scholarship*, annual value £37, tenable for two years, for a Bachelor of Science of not more than two years' standing. See p. 372.

22. *Robert Donaldson Scholarship in Chemistry*, annual value £64, tenable for two years, for a Bachelor of Science of this University.

23. *William Howdsworth Research Studentship*, annual value £120 + £30 for expenses, tenable for two years, open to students of at least two years' standing in the University of Glasgow. Application to be made to the Clerk of Senate, as directed at page 361, on or before 1st October, 1904.

The examinations for the Bursaries Nos. 1 to 4 will be held at the same time as the Arts and Science Preliminary Examinations in September, 1904; for No. 5 on Saturday, 24th September, at 12 noon, Monday, 26th September, at 12 noon, and Friday, 30th September, at 9 a.m.; for Nos. 6 and 7 on Friday, 23rd September, at 9 a.m. and 3 p.m., on Saturday, 24th September, at 9 a.m., on Monday, 26th September, at 3 p.m., and on Friday, 30th September, at 9 a.m. and 2 p.m.; for No. 8 on Saturday, 24th September, at 12 noon, on Monday, 26th September, at 12 noon, on Tuesday, 27th September, at 3 p.m., on Friday, 30th September, at 9 a.m., and on Saturday, 1st October, at 12 noon; for No. 9 on Friday, 30th September, at 9 a.m. and 2 p.m.; and for No. 10 on Monday, 26th September, at 9 a.m.

Names of Competitors to be given in to the Assistant Clerk (Matriculation Office), for Nos. 1 to 5 on 5th September, for Nos. 6 to 12 on 14th September, and for Nos. 16 to 19 on 9th March, 1905.

For the *Denny Bursary*, the *Malcolm McEwen Bursary*, the *Taylor Bursaries*, the *James Ferguson Bursary*, the *1851 Exhibition Science Scholarships*, the *Dobbie Smith Gold Medal*, the *George Harvey Prize*, the *G. R. Muirhead Prize*, and the *Walker Prizes*, see pages 295, 322, 343, 298, 358, 378, 381, 383, 385, respectively.

C.—FACULTY OF MEDICINE.

1. *Mackintosh Bursary*, annual value about £31, tenable for one year. Open to medical students of either sex who have attended the Lectures on Insanity.

2 and 3. *Two Glasgow Highland Society Bursaries*, annual value of each £25, tenable for five years, for students of Highland descent. Apply to Mr. Hugh Brown, Jun., 58 St. Vincent Street, on or before 15th August.

4. *Merchants' House Bursary*, annual value £25, tenable for four years. Open to students entering on their first winter session of medical study. Apply to W. H. Hill, Esq., LL.D., Merchants' House, 7 West George Street, on or before 1st September, 1904.

5. *Marshall Bursary*, annual value £16, tenable for four years, open to students entering on their first winter session of medical study, with a preference to the name Marshall.

6. *Lorimer Bursary*, annual value £24, tenable for three years. Open to medical students entering on their second winter session.

7. *Rainy Bursary*, annual value £20, tenable for two years. Open to students entering on their fourth session of medical study. See page 337.

8 and 9. *Two James A. Paterson Bursaries*, annual value £35 and £25 respectively, tenable for four years. Open to students entering on their first or second session of medical study. Examination in Mathematics and Dynamics.

10. *Davidson Bursary*, annual value £32, tenable for three years, will be awarded in accordance with the results of the First Professional

Examination, a preference being given, *ceteris paribus*, to the Founder's relatives, and to natives of Muirkirk, Dalserf, Lesmahagow, or Loudon.

11. *Dr. Thomas Gibson Bursary*, annual value £36, tenable for four years. Open to medical students entering on their second winter session who are preparing for service as medical missionaries. It will be awarded to the qualified candidate who has gained the highest number of marks in the First Professional Examination. See p. 304.

12. *Arthur Bursary*, annual value £20, tenable for three years, will be awarded in November to the Queen Margaret student who takes the highest place in the First Professional Examination in March and October, 1904.

13. *John Monteith Bursary*, annual value about £21, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in March and October, 1904.

14. *Andrew Weir Bursary*, annual value £16, tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

15. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

16. *Senior Arnott Prize*, of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their medical studies.

17. *Brunton Memorial Prize*, of about £10, is given to the most distinguished graduate in Medicine of the year.

For the *Denny*, the *Hutchesons' Educational Trust*, the *William Whyte*, the *Macdonald*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Medicine, see Nos. 23, 38 to 42, 58, 74, 78, and 73, under Faculty of Arts. For the *Andrew* and *Bethia Stewart Bursaries*, see p. 341; and for *McCunn Research Scholarships* tenable by Graduates, see p. 363.

DATES OF EXAMINATIONS.

The examinations for the Bursary No. 1 in the above list will be held in June, for Nos. 2 to 5, at the same time as the Medical Preliminary; for No. 6 on Monday, 26th September, at 2 p.m., on Tuesday, 27th September, at 9 a.m. and 11 a.m.; for Nos. 8 and 9, on Saturday, 24th September, at 12 noon; Monday, 26th September, at 12 noon; Tuesday, 27th September, at 3 p.m.; Friday, 30th September, at 9 a.m., and Saturday, 1st October, at 12 noon; and for the Prizes Nos. 13 and 14 on Saturday, 1st October, at 2 p.m.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursary No. 1 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st June; for Bursaries Nos. 2 to 10, not later than 5th September; and for Prizes 15 and 16, not later than 14th September.

D.—FACULTY OF LAW.

1. *Major Young's Fund Bursary*, annual value £22, tenable for six years, open to students of the first year in Arts who intend to study for a degree in Law. Names of candidates to be given in not later than 5th September.

2. *Major Young's Fund Bursary*, annual value £22, tenable for two years, open to students of the first year in Law. Names of candidates to be given in not later than 5th September.

3. *Merchants' House Bursary*, annual value £25, tenable for three years. Open to students entering on their first session of attendance on the classes in the Faculty of Law. Candidates are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Monday, 5th September, and also to the Clerk of the Merchants' House, not later than 1st September.

Competitors for Nos. 1 to 3 are required to attend the Arts Preliminary and Bursary Examination. For subjects and times see p. 392.

4. *Walkinshaw Young Bursary*, annual value £16, tenable for two years, open to students who, since 1st December, 1902, have at an examination in Arts for the degree of B.L. passed in two Arts subjects, or have at one examination passed in any two subjects for the degree of M.A. Applications to be lodged with the Clerk of Senate on or before 1st December, 1904.

5. *Andrew Cunningham Scholarship*, annual value about £35, tenable for two years, will be awarded in November, 1904, to the most distinguished Bachelor of Laws of the year, special consideration being given to eminence in Conveyancing.

For the *Denny*, the *William Whyte*, the *Macdonald*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Law, see Nos. 23, 58, 74, 78, 81, and 73 under Faculty of Arts. For the *Andrew and Bethia Stewart Bursaries*, see p. 341.

E.—FACULTY OF THEOLOGY.

Open to Competition during Session 1904-5.

1 and 2. *Two John Adam Bursaries*, each of the annual value of £18, tenable for four years. Open to students of Theology of the first year.

3. *Hastie Bursary*, annual value £25, tenable for three years. Open to students of Theology of the first year who are Masters of Arts of any Scottish University, or who have passed all the examinations for graduation in Arts.

4. *Logan Bursary*, annual value £17, tenable for three years. Open to competition to students who are entering upon their first year in Divinity.

5. *Lorimer Bursary*, annual value £24, tenable for three years. Open to students entering the Divinity Hall.

6. *Lumsden Bursary*, annual value £15, tenable for four years. Open to students of Divinity of the first year, with a preference to the sons of members, or of deceased members, of the Stationers' Company of Glasgow.

7. *James Macfarlane Bursary*, annual value £25, tenable for three years. Open to students entering on the study of Divinity, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any four subjects taken out of at least two departments for graduation in Arts.

8. *Marshall Bursary*, annual value £16, tenable for four years. Open to students of Theology of the first year, with a preference to the name Marshall.

9 and 10. *Two King William's Bursaries*, each of the annual value of £20, tenable for three years. Open to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first year of attendance on a course of study in the University for graduation in Divinity.

11. *William Muir Divinity Bursary*, annual value £25, tenable for two years. Open to candidates who have passed the examination of the Examining Board for entrance to the Divinity Hall of the University. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, not later than 11th October.

12. *Black Theological Fellowship*, annual value about £133, tenable for one year. Open to Masters of Arts from any of the Universities of Scotland who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1905.

13. *The Findlater Scholarship Prize*, value about £38 sterling, for examination in the subjects for the degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1905.

14. *The Jamieson Prize*, value about £10 sterling, for examination in the subjects for the degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1905.

15. *The Macfarlan and Cook Testimonial Prize*, of £21, open to Theological students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

16 and 17. *Dowanhill Prizes*, one of £20, and the other of £10, for Elocution. Open to students of Divinity of the third year.

For the *Armagh* and the *James Ferguson Bursaries*, also tenable by students of Divinity, see Nos. 78, 81, and 73 under Faculty of Arts.

DATES OF EXAMINATIONS.

The examinations for Nos. 1 to 11 inclusive, in the above list, will be held on Tuesday, 18th October, and Wednesday, 19th October, at

9 a.m. each day; and for Nos. 12 to 14, on Tuesday, 18th October, Wednesday, 19th October, Thursday, 30th March, and Friday, 31st March, at 9 a.m. each day.

SUBJECTS OF EXAMINATION.

Candidates for Bursaries Nos. 1 to 11 inclusive may select any seven out of the nine subjects in the following list:—

LATIN.—Horace, *Odes*, Book iii.; Translation from English into Latin.

GREEK.—The Gospel according to John.

LOGIC.—Jevons, *Elementary Lessons in Logic*.

MORAL PHILOSOPHY.—Muirhead, *Elements of Ethics*.

MATHEMATICS.—Euclid, Books I., II., III. Algebra to Quadratic Equations, inclusive.

NATURAL PHILOSOPHY.—Deschanel, *Physics*, Part II.

ENGLISH.—Morley, *First Sketch of English Literature*, Chapter XIII. A short essay will be prescribed.

HEBREW.—Book of Genesis.

HISTORY.—European History in the Sixteenth Century.

The subjects of examination for Nos. 12, 13, 14 are the same as for the Degree of Bachelor of Divinity.

The subjects of examination for the Prize No. 15 for Session 1904-5 are as follows:—

GREEK.—Sophocles, *Antigone*.

DIVINITY.—Biblical Theology.—The Epistle to the Romans.

HEBREW.—Isaiah, Chaps. i.-xxxix.

CHURCH HISTORY.—History of the Church in England, Scotland, and Ireland from 1500 to 1600.

MORAL PHILOSOPHY.—Butler, *Three Sermons on Human Nature*.

DATES FOR SENDING IN APPLICATIONS.

Candidates for Nos. 1 to 14 inclusive are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 12th October, 1904; for the Prize No. 15 to the Professor of Divinity, not later than 1st November, 1904; and for the Prizes Nos. 16 and 17, to the Professor of Divinity, not later than 15th March, 1905.

5.—PATRONAGE BURSARIES, 1904-5.

A.—FACULTY OF ARTS.

Appointments to the following Bursaries in the gift of Patrons, including bodies corporate and not corporate, fall to be made before the opening of session 1904-5. Candidates are required to present themselves for the Arts Preliminary Examinations, and for this purpose their

names must be given in to the Assistant Clerk (Matriculation Office), on or before 5th September.

1. *Adamson Bursary*, see page 282.
2. *Dundonald Bursary*, see page 296.
3. *Hamilton Bursary*, see page 307.
4. *Howison and Gilchrist Bursary*, see page 310.
5. *Williams Bursary*, see p. 346.
6. *Lamb Bursary*, see p. 314.

B.—FACULTY OF MEDICINE.

1. *Brisbane Bursary*, see p. 288.
2. *Thomas Hutcheson Bursary*, see p. 311.

C.—FACULTY OF LAW.

1. *Thomas Hutcheson Bursary*, see p. 311.

D.—FACULTY OF THEOLOGY.

1. *Ardkinglass Bursary*, see page 283.
2. *Boyd and Sanders Bursary*, see page 287.
3. *Dundonald Bursary*, see page 296.
4. *Hamilton Bursary*, see page 307.
5. *Gilhagie and Struthers Bursary*, see page 305.
6. *Thomas Hutcheson Bursary*, see page 311.
7. *Lamb Bursary*, see page 314.
8. *Leighton Bursary*, see page 316.

N.B.—For information regarding the Auld Bursary and the Sharp Bursary in the gift of the Presbytery of Perth for students preparing for the ministry of the Church of Scotland, apply to the Clerk of the Presbytery, the Rev. John Ferguson, B.D., Aberdalgie, Perth.

6.—UNIVERSITY PRIZE ESSAYS.

FOR SESSION 1904-5.

1. In Mental Philosophy, the UNIVERSITY SILVER MEDAL, for the best "Critical Account of Monadism as it appears in the Philosophy of the present day." All students of the Classes of Logic, Moral Philosophy or English Literature, in Session 1903-4 or 1904-5, may be competitors.

2. THE EWING GOLD MEDAL, for the best essay on "Queen Margaret (Tudor) of Scotland." All Matriculated Students of the University in Session 1904-5 may be Competitors.

3. A COULTER PRIZE OF FIVE POUNDS, for the best "Concise Exposition and Criticism of the Ritschlian Theology."

4. A COULTER PRIZE OF FIVE POUNDS, for the best essay entitled "A Study of the Greek Popular Proverbs."

For the Coulter Prizes all matriculated students of the University in session 1904-5 may be competitors.

5. The HENDERSON PRIZE OF TWENTY GUINEAS, for the best "Historical and Critical Examination of the relation between the Jewish Sabbath and the Lord's day." All matriculated students of the University in session 1904-5, and all Masters of Arts who graduated in November, 1899, or thereafter, may be competitors.

6. THE DOBBIE-SMITH GOLD MEDAL, for the best essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the essay to be accompanied by an illustrative series of Macroscopic and Microscopic Specimens. All matriculated students of session 1903-1904 may be competitors. Essays must be given in by 30th September, 1904.

The essays, with the exception noted above (No. 6), must be given in to the Principal on or before Monday, 31st October, 1904, after which day none can be received. Each must be distinguished by two mottoes, and accompanied by a sealed letter bearing on the outside the same mottoes, and containing a declaration subscribed by the author that the essay is entirely of his own composition. All quotations in the essays must be carefully marked and accurate references to their respective authorities given in the notes. The Senate reserves the power of withholding the prize for any subject, if none of the essays on that subject reaches a sufficiently high standard of merit.

GARTMORE GOLD MEDAL IN SESSION 1905-6.

The subject for the essay in the competition for the Gartmore Gold Medal, open to matriculated students in session 1905-6, will be - "The State as a Moral Agent."

XI.—HONOURS LIST.

NAMES OF GRADUATES WITH HONOURS SINCE THE YEAR 1827.

BACHELORS OF ARTS (B.A.).

		Honourable Distinction.	Highest Distinction.
1827	¹ Alfred Day, . . . England,	. . . . .	{ Classics. Mental Philosophy.
1831	James Halley, . . . Scotland.	. . . . .	{ Classics. Mental Philosophy.
1838	William Makellar, . . . ,	Classics.	
„	Francis Tucker, . . . England,	Classics.	
1840	¹ John Daniel Morell, . . . „	{ Classics. Mental Philosophy.	
1842	¹ Nathaniel Haycroft, . . . „	{ Classics. Mental Philosophy.	
1843	¹ David M'Lauchlan, . . . Scotland,	{ Classics. Mental Philosophy.	
1852	Samuel Crusha Sarjant, England,	. . . . .	{ Classics. Mental Philosophy.
1856	¹ Joseph David Everett, . . . „	{ Classics. Mental Philosophy.	
„	David Johnston, . . . „	Mental Philosophy.	
1857	Wm. Thomson Johnston, Scotland.		Classics.
„	Andrew Moody, . . . „	Mental Philosophy.	
„	¹ William Ralph Pattison, „	{ Classics. Mental Philosophy.	
1858	John MacLeod, . . . „	. . . . .	Mental Philosophy.
„	² Peter Sinclair Menzies, „	Classics.	
1859	¹ George Porter, . . . „	{ Classics. Mental Philosophy.	
„	¹ Joseph Gardner, . . . „	Mental Philosophy.	
1860	¹ Richard Vary Campbell, „	. . . . .	Mental Philosophy.
„	¹ Daniel Munro, . . . „	Classics.	
1861	¹ John M'Lean, . . . „	{ Classics. Mental Philosophy.	
„	¹ Thomas Carruthers, . . . „	{ Classics. Mental Philosophy.	
„	¹ William Stewart, . . . „	{ Classics. Mental Philosophy.	
„	³ David Thomas, . . . „	Mental Philosophy.	
„	¹ George Matheson, . . . „	Mental Philosophy.	
„	¹ Henry William Bell, . . . India,	Mental Philosophy.	
„	¹ Thomas Robinson, . . . England,	Mental Philosophy.	

¹ Graduated M.A. in the following year.

² Graduated M.A. three years later.

³ Graduated M.A. two years later

MASTERS OF ARTS (M.A.).

		Honourable Distinction.	Highest Distinction.
1827	George Samuel Evans, . England,	. . . . .	{ Classics. { Mental Philosophy.
„	William Cooper, . . Scotland.	{ Classics. { Mental Philosophy.	
1828	William Acworth, . England,	. . . . .	{ Classics. { Mental Philosophy.
„	Samuel Macurdy Greer, Ireland,	. . . . .	{ Classics. { Mental Philosophy.
„	James Rankine, . . Scotland.	{ Classics. { Mental Philosophy.	
„	William Baird, . . „	{ Classics. { Mental Philosophy.	
„	John Reid, . . . England,	Physical Science.	
„	Alexander Ure, . . Scotland,	Physical Science.	
1831	David L. Arnot, . . „	. . . . .	Classics.
„	John Jenkins, . . . Wales,	Classics.	
„	Robert Cotton Mather, . England,	Classics.	
„	Neil M'Michael, . . Scotland,	Physical Science.	
1832	Andrew Borland Parker, „	. . . . .	Classics.
1836	John Cunningham, . „	. . . . .	Physical Science.
„	William Fulton, . . „	{ Classics. { Mental Philosophy.	
1837	Richard Shaen, . . . England,	Physical Science.	
„	Thomas Elliot Richardson, „	Physical Science.	
„	John Blair, . . . Ireland,	Physical Science.	
„	William Cuthell, . . Scotland	Physical Science.	
1840	Duncan Harkness Weir, „	Physical Science.	
„	James Thomson, . . Ireland,	Physical Science.	
„	John Buchanan, . . Scotland.	Physical Science.	
1841	William Arthur Jones, Wales,	{ Classics. { Mental Philosophy.	
1842	Alexander Grierson, . Scotland,	Physical Science.	
„	John Davies, . . . England,	{ Classics. { Mental Philosophy.	
1843	John Trafford, . . . „	{ Classics. { Mental Philosophy.	
„	David Duff, . . . Scotland,	Physical Science.	
1844	John Morgan, . . . „	Physical Science.	
„	John Thomson, . . . Ireland,	Physical Science.	
„	William Turnbull Ker, . Scotland,	Physical Science.	
„	Richard Tomlinson, . England,	{ Classics. { Mental Philosophy.	
1846	Robert Graham, . . Scotland,	Physical Science.	
1847	William John Steele, . Ireland,	Physical Science.	
„	James Porter, . . . „	Physical Science.	
1848	Adam Milroy, . . . Scotland,	{ Classics. { Mental Philosophy.	
„	Walter David Jeremy, . England,	{ Classics. { Mental Philosophy.	

		Honourable Distinction.	Highest Distinction.
1849	John Kerr, . . . Scotland,	. . . .	Physical Science.
"	George M'Queen, . . . "	. . . .	Physical Science.
"	Henry Martyn Barker, . England,	. . . .	{ Classics.
"	John Newton Langley, . . . "	. . . .	{ Mental Philosophy.
			{ Classics.
			{ Mental Philosophy.
1850	Alexander Walker, . . Scotland,	{ Classics.	
"	Horatio Lindsay Taplin, England,	{ Mental Philosophy.	
"	Robert Masters Theobald, . . . "	{ Classics.	
"	Robert Masters Theobald, . . . "	{ Mental Philosophy.	
1851	Carstairs Douglas, . . Scotland,	Physical Science.	
"	Daniel Davies Jeremy, . . England,	{ Classics.	
"	Daniel Davies Jeremy, . . England,	{ Mental Philosophy.	
1852	Thomas Logan, . . . Scotland,	Physical Science.	
"	James Wylie Johnston, . . . "	{ Classics.	
"	James Wylie Johnston, . . . "	{ Mental Philosophy.	
1853	Charles Abercromby Smith, . . . "	. . . .	Physical Science.
"	William Jack, . . . . . "	. . . .	Physical Science.
"	Edward John Gibbs, . . England,	. . . .	{ Classics.
"	Edward John Gibbs, . . England,	. . . .	{ Mental Philosophy.
1856	James Galbraith, . . . Scotland,	Physical Science.	
"	John Murray, "	Physical Science.	
1857	Joseph David Everett, . . England,	. . . .	Physical Science.
"	George Monro Grant, Nova Scotia,	. . . .	Mental Philosophy.
"	David Herbert, Scotland,	Mental Philosophy.	
"	Neil Macpherson, "	{ Classics.	
"	Neil Macpherson, "	{ Mental Philosophy.	
1858	John Weir, "	Mental Philosophy.	
1859	Robert Whyte, "	Mental Philosophy.	
1860	Walter Roberts, "	Mental Philosophy.	

MASTERS OF ARTS (M.A.).

Ordinances No. 14, Sections vi., vii., viii. ; No. 18, Section iii. (1858).

		Class of Honours and Department.			
		Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1862	John Ferguson, Scotland,	...	...	...	I
1866	John Mann, "	I	...	...	...
"	John Ferguson, "	...	II	...	...
1867	William E. Grigsby, England,	II	...	...	...
"	James Smith, Scotland,	...	...	I	...
"	William Ross, . . . . . "	...	...	II	...
1868	Robert Stewart, "	...	I	...	...
"	John Wilson, "	...	I	...	...

					<i>Class of Honours and Department.</i>			
					Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1869	Favour James Greg,	.	.	Scotland,	...	I	...	...
"	Adam Semple,	.	.	"	...	I	...	...
"	Joseph Loudon,	.	.	"	...	...	II	...
"	James M'Intosh,	.	.	"	...	I	...	...
1870	John Cross,	.	.	U.S.A.,	I	I	...	...
"	Matthew M. Dickie,	.	.	England,	II	I	...	...
"	James Orr,	.	.	Scotland,	...	I	...	...
"	Robert A. Sinclair,	.	.	"	...	II	...	...
"	James D. H. Dickson,	.	.	"	...	...	II	...
"	Dugald M'Kichan,	.	.	"	...	...	II	...
1871	William S. Fleck,	.	.	"	...	I	...	...
"	William Oliver,	.	.	Wales,	...	II	...	...
"	John E. H. Thomson,	.	.	Scotland,	...	II	...	...
"	Colin R. M'Clymont,	.	.	"	...	I	...	...
"	Charles S. Dickson,	.	.	"	...	II	II	...
1872	William Hamilton,	.	.	"	...	I	...	...
"	John Watson,	.	.	"	...	I	...	...
"	Zachary M. H. Ross,	.	.	"	...	II	...	...
"	Archibald Russell,	.	.	"	...	II	...	...
"	William G. Miller,	.	.	"	...	...	II	...
"	John M. Brown,	.	.	"	...	I	...	...
"	Alexander S. Macphie,	.	.	"	...	I	...	...
"	James C. MacTaggart,	.	.	"	...	...	I	...
"	James Henderson,	.	.	"	...	...	II	...
1873	William Bathgate,	.	.	"	I	...	...	...
"	John M'Cunn,	.	.	"	...	I	...	...
"	Thomas L. Galloway,	.	.	"	...	...	I	...
"	David Hunter,	.	.	"	II	I	...	...
"	Robert Harvey,	.	.	"	I	...	...	...
"	Thomas H. Miller,	.	.	"	...	...	I	...
"	Buchanan Blake,	.	.	"	...	II	...	...
"	James Arthur,	.	.	"	...	...	II	...
1874	James Bonar,	.	.	"	I	I	...	...
"	James G. Frazer,	.	.	"	...	I	...	...
"	Alexander F. Fraser,	.	.	"	...	I	...	...
"	John Wilson Reid,	.	.	"	I	...	II	...
"	Colin Campbell,	.	.	"	II	I	...	...
"	James Thomson,	.	.	"	...	I	...	...
"	Hugh Hart Currie,	.	.	"	II	...	...	...
"	James MacKay,	.	.	"	...	II	...	...
1875	Benjamin F. C. Costelloe,	.	.	Ireland,	II	I	...	...
"	William Yuill King,	.	.	Scotland,	I	...	...	...
"	William Patrick,	.	.	"	...	I	...	...
"	John Patrick,	.	.	"	II	...	...	...
"	James S. Russell,	.	.	"	...	...	I	...
"	John C. Watt,	.	.	"	...	...	I	...
"	John B. Douglas,	.	.	England,	II	...	...	...
"	Neil D. MacLachlan,	.	.	Scotland,	...	II	...	...
"	James Johnston Dobbie,	.	.	"	...	...	...	I
1876	James Lambie,	.	.	"	...	I	...	...
"	Ebenezer B. Speirs,	.	.	"	...	I	...	...

					<i>Class of Honours and Department.</i>			
					Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1876	Islay F. Burns,	Scotland,	II	...	...	...	...	...
"	Robert MacLehose,	"	...	II	...	...	...	...
"	Joseph Conn, . . . .	"	...	...	II	...	...	...
"	Robert H. Pinkerton, . . . .	"	...	...	II	...	...	...
"	David Wilson, . . . .	"	...	...	II	...	...	...
"	John P. Mitchell,	"	...	I	...	...	...	...
"	William M. Rankin,	"	...	I	...	...	...	...
"	Andrew Gray, . . . .	"	...	...	II	...	...	...
1877	Wallace M. Lindsay,	"	I	II	...	...	...	...
"	Alexander S. Wilson, . . . .	"	...	...	...	...	I	...
"	James Kidd,	"	...	I	...	...	...	...
"	Thomas B. Kilpatrick,	"	...	I	...	...	...	...
"	Mungo W. McCallum,	"	...	II	...	...	...	...
"	William Allan, . . . .	"	...	...	II	...	...	...
"	James Arthur, . . . .	"	...	...	II	...	...	...
1878	Robert Mackintosh,	"	II	I	...	...	...	...
"	John Edgar,	"	I	...	...	...	...	...
"	John M. Dodds, . . . .	"	...	...	I	...	...	...
"	David W. Forrest,	"	...	II	...	...	...	...
"	Alexander Isdale,	"	...	I	...	...	...	...
"	Lewis A. Muirhead,	"	...	I	...	...	...	...
"	James Wilson,	"	II	...	II	...	...	...
1879	John Wilson Marshall,	"	I	II	...	...	...	...
"	Francis Wm. Clark,	"	II	II	...	...	...	...
"	Henry Jones,	Wales,	...	I	...	...	...	...
"	William T. Bankhead,	Scotland,	...	II	...	...	...	...
"	Andrew Rutherford,	"	...	II	...	...	...	...
"	James Thomson,	Ireland,	...	...	II	...	...	...
"	James Denney,	Scotland,	I	I	...	...	...	...
"	James Kippen Duff,	"	I	...	...	...	...	...
"	Robert Tannahill Younger,	"	...	II	...	...	...	...
"	William L. Macindoe, . . . .	"	...	...	II	...	...	...
1880	Alexander Gregory,	"	II	...	...	...	...	...
"	Thomas Gregory,	"	I	I	...	I	...	...
"	Alexander N. Cumming,	"	II	II	...	...	...	...
"	Hugh Young Reyburn,	"	II	II	...	...	...	...
"	John G. A. Dow,	"	II	...	...	...	...	...
"	John Henderson,	"	...	II	...	...	...	...
1881	Cecil J. Swan,	"	II	...	...	...	...	...
"	Francis H. Stead,	England,	II	I	...	...	...	...
"	David S. Adam,	Scotland,	...	I	...	...	...	...
"	William Granger,	"	...	I	...	...	...	...
"	Robert F. Muirhead, B.Sc., . . . .	"	...	...	I	...	...	...
"	Alexander Russell, . . . .	"	...	...	I	...	...	...
"	Patrick H. Aitken,	"	II	...	...	...	...	...
"	Alexander Anderson,	"	II	...	...	...	...	...
"	Robert T. Loudon,	"	...	II	...	...	...	...
"	Robert Veitch,	England,	...	II	...	...	...	...
"	James Maclay,	Scotland,	...	...	II	...	...	...
"	John Stuart, . . . .	"	...	...	II	...	...	...
"	James Hamilton, . . . .	"	...	...	II	...	...	...

					<i>Class of Honours and Department.</i>			
					Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science
1882	James A. M'Callum,	.	.	Scotland,	...	I	...	...
"	John H. Fullarton,	.	.	"	...	...	...	I
"	Charles P. Blair,	.	.	"	...	II	...	...
"	James M. Dodds,	.	.	"	I	...	...	...
"	John S. MacKenzie,	.	.	"	...	I	...	...
"	William Smart,	.	.	"	...	I	...	...
"	John Weir,	.	.	"	...	...	I	...
"	John Gray,	.	.	"	...	II	...	...
"	Charles Steele,	.	.	"	...	II	...	...
1883	John Aitken Orr,	.	.	"	...	I	...	...
"	Alexander Robinson,	.	.	"	...	II	...	...
"	Lewis Hughes,	.	.	Wales,	...	II	...	...
"	Francis Anderson,	.	.	Scotland,	...	I	...	...
"	Wm. S. M'Kechnie,	.	.	"	...	I	...	...
"	William Muir,	.	.	"	...	I	...	...
"	James W. Inglis,	.	.	"	II	...	...	...
"	Patrick H. Hutchinson,	.	.	Ireland,	II	...	...	...
"	Robert A. Moody,	.	.	Scotland,	II	...	...	...
"	William T. Mitchell,	.	.	"	...	...	II	...
1884	Andrew A. Mitchell,	.	.	"	I	...	...	...
"	James M'Millan,	.	.	"	I	...	...	...
"	Archd. S. Laidlaw,	.	.	"	...	I	...	...
"	John Mack,	.	.	"	...	...	I	...
"	William Clark,	.	.	"	II	...	...	...
"	John Smithers,	.	.	"	II	I	...	...
"	Archibald M'Laren,	.	.	"	I	...	...	...
"	John Adams,	.	.	"	...	I	...	...
"	James Barr,	.	.	"	...	I	...	...
"	Gavin Lambie,	.	.	"	...	I	...	...
"	Robert M. Wenley,	.	.	"	...	I	...	...
"	George G. Henderson,	.	.	"	...	...	...	I
"	Campbell N. Moody,	.	.	"	II	II	...	...
"	Hugh Stevenson,	.	.	"	...	II	...	...
"	James Strachan,	.	.	"	...	...	II	...
"	Alex. B. Symington,	.	.	"	II	...	...	...
1885	John Lee,	.	.	"	I	...	...	...
"	James Buchanan,	.	.	"	...	...	I	...
"	Norman Fraser,	.	.	"	...	...	I	...
"	James P. M'Laren,	.	.	"	II	...	...	...
"	William Binnie,	.	.	"	...	II	...	...
"	David Frew,	.	.	"	...	II	...	...
"	Richard Glaister,	.	.	"	...	II	...	...
"	David Houston,	.	.	"	...	II	...	...
"	Walter Wingate,	.	.	"	...	...	II	...
"	William M. Mackay,	.	.	"	...	I	...	...
"	Andrew F. Smith,	.	.	"	...	I	...	...
"	Alex. L. Watson,	.	.	"	II	...	...	...
"	Archibald J. Macnicol,	.	.	"	...	...	II	...
1886	Charles F. Fleming,	.	.	England,	...	I	...	...
"	Wellstood A. Watt,	.	.	Scotland,	...	I	...	...
"	John Dougall,	.	.	"	...	...	I	...

				<i>Class of Honours and Department.</i>			
				Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1886	John M'Cowan, B.Sc.,	.	Scotland,	...	...	I	...
"	William H. Carslaw,	.	"	...	...	II	...
"	Magnus M'Lean,	.	"	...	...	II	...
"	John A. Cramb,	.	"	I	...	...	...
"	Robert A. Duff,	.	"	...	I	...	...
"	William Johnston,	.	"	...	II	...	...
"	James Macmillan,	.	"	...	...	II	...
"	Robert A. Nicolson,	.	"	...	...	II	...
1887	James Finlayson,	.	"	...	...	II	...
"	James Gifford,	.	"	...	II	...	...
"	Charles Mackay Gordon,	.	W. Indies,	...	I	...	...
"	David Smith,	.	Scotland,	I	...	...	...
"	John Watson Bryson,	.	"	...	I	...	...
"	Robert Gardner,	.	"	...	II	...	...
"	James Gilfillan,	.	"	...	I	...	...
"	Daniel Kirkwood,	.	"	...	II	...	...
"	Alexander Lucas Taylor,	.	"	II	...	...	...
"	John Thomson,	.	"	...	...	II	...
1888	John Esslemont Adams,	.	"	II	...	...	...
"	Archibald Lamont,	.	"	...	II	...	...
"	Arthur David Millar,	.	"	I	...	...	...
"	John Dickson Sinclair,	.	"	...	II	...	...
"	Evan Keri Evans,	.	Wales,	...	I	...	...
"	Robert Kennedy, B.Sc.,	.	Scotland,	...	...	...	I
"	John Liddle King,	.	"	...	II	...	...
"	Malcolm Macnicol,	.	"	...	...	II	...
"	Ernest Findlay Scott,	.	England,	I	I	...	...
"	Robert Strymgeour,	.	Scotland,	...	I	...	...
"	Robert Reid Strachan,	.	"	...	II	...	...
"	John Cunningham Walker,	.	"	...	II	...	...
1889	Norman de Garis Davies,	.	England,	...	II	...	...
"	George Davidson Kempt,	.	Scotland,	...	II	...	...
"	Alfred Ernest Garvie,	.	Poland,	...	I	...	...
"	John Hunter Harley,	.	Scotland,	...	I	...	...
"	John Brownlee,	.	"	...	...	I	...
1890	James Fairlie Gemmill,	.	"	I	...	...	...
"	John Edgar M'Fadyen,	.	"	I	...	...	...
"	James Robertson Cameron,	.	"	...	I	...	...
"	James Moffatt,	.	"	II	...	...	...
"	James Peter Wilson,	.	"	II	...	...	...
"	John Easton Black,	.	"	...	II	...	...
"	George Douglas Brown,	.	"	I	...	...	...
"	Robert Bulloch Douglas,	.	"	...	I	...	...
"	Peter Pinkerton,	.	"	...	...	I	...
"	Douglas Blyth Binning,	.	"	...	II	...	...
"	Robert Baillie Douglas,	.	"	...	II	...	...
"	James Hair Maclean,	.	"	...	II	...	...
"	Gilbert Buchanan,	.	"	...	...	II	...
"	Alexander Holm,	.	"	...	...	II	...
1891	John Hamilton Pagan	.	"	I	...	...	...
"	John Gillies,	.	"	II	...	...	...

				<i>Class of Honours and Department.</i>			
				Classics.	Mental Philos.	Math. & Nat. Phil.	Natural Science.
1891	John M'Gilchrist,	Scotland,	II	...	...	...	...
"	Horatio Scott Carslaw, . . .	"	...	...	...	I	...
"	James Holm, . . . .	"	...	...	...	I	...
"	Nicol Macnicol,	"	II	II	...	...	...
"	John White,	"	...	II	...	...	...
1892	David Donaldson Robertson, .	"	...	I	...	...	...
"	Daniel Lamont,	"	...	II	I	...	...
"	John Gillespie Spens, . . .	"	II	...	...	...	...
"	Alexander Taylor,	"	II	...	...	...	...
"	Walter Stewart, . . . .	"	...	...	I	...	...
1893	Donald Nicol Dow,	"	I	...	...	...	...
"	Gilchrist Gibb Alexander, . .	"	...	I	...	...	...
"	Robert Stevenson Horne, . .	"	...	I	...	...	...
"	William Sandilands Templeton,	"	...	...	...	I	...
"	Wm. Carrick Anderson, . . .	"	...	...	...	...	I
"	Edward H. Wallace,	"	II	...	II	...	...
1894	Campbell M. Macleroy, . . .	"	I	...	...	...	...
"	Robert George Nisbet, . . .	"	II	...	...	...	...
"	Andrew Robertson,	"	II	...	...	...	...
"	John Charles Scott,	Ireland,	I	...	...	...	...
"	Charles William Thomson, . .	Scotland,	I	...	...	...	...
"	William Romaine Paterson, . .	"	...	I	...	...	...
"	Charles Shirra Dougall, . . .	"	...	...	I	...	...
"	William Craig Henderson, . .	"	...	...	I	...	...
"	John Macfarlane Forsyth, . .	"	II	...	...	...	...
1895	William Gow,	"	I	...	...	...	...
"	Joseph Ferguson M'Fadyen, .	"	I	...	...	...	...
"	Gavin Lang Pagan,	"	...	I	...	...	...
"	William Anderson Lindsay, . .	"	...	...	I	...	...
"	Thomas Nisbet, . . . .	"	...	...	I	...	...
"	John Alexander Duke,	"	...	II	...	...	...
1896	David Hodge Crawford, . . .	"	I	...	...	...	...
"	John Freeland Cunningham, .	"	II	...	...	...	...
"	John Girvan,	"	II	...	...	...	...
"	James M'Murtrie,	"	II	...	...	...	...
"	James Slater Dunlop, . . . .	"	...	...	II	...	...
"	William Morrison,	"	...	II	...	...	...
"	Samuel Harvey M'Ewing, . . .	"	...	II	...	...	...
"	Alexander Smith,	"	...	II	...	...	...
"	John Miller, . . . .	"	...	...	I	...	...
1898	William John Saull,	England,	...	II	...	...	...
1899	James Moffat,	Scotland,	...	...	II	...	...

MASTERS OF ARTS (M.A.).

Ordinances No. 11, Sections xi.-xv.; No. 44, Sections vi., viii.; No. 148, Sections ii., iii.; No. 160, Sections i.-iii.; No. 163, Section i. (1889).

		First Class.	Second Class.	Third Class.
1894	Henry Noel Brailsford, England,	Mental Philosophy.	Classics.	
1895	William Gregory Bell, do.,	Classics.		
"	James Wallace Peck, Scotland,	Math. & Nat. Phil.		
"	William King Gillies, do.,	Classics.		
"		Mental Philosophy.		
1896	James Paterson Brander, do.,	Classics.		
"	John Maclean Ramsay, do.,	Classics.		
"	Horace Fenton Wallace, do.,	Classics.		
"	James Gillespie, do.,		Classics.	
"	William Boyd, do.,	Mental Philosophy.		
"	James Wilson Copeland, do.,	Math. & Nat. Phil.		
"	Adam Bell Stewart, do.,	Math. & Nat. Phil.		
"	George Donald Valentine, do.,	Math. & Nat. Phil.		
"	Arthur West Wilkie, England,		Math. & N.P.	
"	John Young, Scotland,		Math. & N.P.	
1897	George Stewart Adams, do.,	Classics.		
"	Robert Daniels Bell, England,	Classics.		
"	John W. Henderson, Scotland,	Classics.		
"	Peter William Monie, do.,	Classics.		
"	Marion M. Crichton, China,		Classics.	
"	Alex. James Martin, Scotland,		Classics.	
"	Thomas Neilson, do.,		Classics.	
"	Allan Gibson, do.,			Classics.
"	Thomas Ellis Jones, Wales,	Mental Philosophy.		
"	David Stevenson, Scotland,			English.
"	William M. R. Pringle, "	History.	Classics.	
"	Gavin Scott, "	History.	Classics.	
"	Adam Hamilton, "	Classics.		
"	James William Baird, "		Classics.	
"	Grace Foulis Hay, "		Classics.	
"	William N. Raeburn, "		Classics.	
"	Andrew Boyd Scott, "	Mental Philosophy.		
"	John Scoular Thomson, "	Mental Philosophy.		
"	Alex. M'Callum Scott, "			(Ment. Phil.
"	James Campbell Ker, "	Math. & Nat. Phil.		
"	William Wylie Fulton, "		English.	
"	Richard R. Williams, Wales,			English.
1898	John Lyle Morison, Scotland,	History.		
"	William H. Begg, "	English.		
"	David L. Blair, "	Classics.		
"	John Harvey, "	Classics.		
"	Dorothy N. T. Murray, "		Classics.	
"	Constance Tannahill, England,			Classics.
"	Alexander A. Gardner, Scotland,	Math. & Nat. Phil.		
"	James E. Henderson, "		Math. & N.P.	
"	Wm. Fulton (Uddingston), "	Classics.	Math. & N.P.	

		First Class.	Second Class.	Third Class.
1898	Eliz. Pettigrew Taylor, Scotland,	Math. & Nat. Phil.	English.	{ Classics, M. Phil.
"	Willam Longmore Parkin, "	Classics.	"	
"	Robert M'Ewan, "	Classics.	"	Classics.
"	Helen Rutherford, "	Classics.	"	
"	William Fulton (Glasgow), "	"	Classics.	Classics.
"	William Henderson Love, "	"	Classics.	
"	Alexander Auchinachie, "	"	"	Classics.
"	And. James Campbell Kerr, "	"	"	
"	Hugh Reid Buchanan, "	Mental Philosophy.	"	Classics.
"	David H. Tweeddale, "	Mental Philosophy.	"	
"	Robert Candlish, "	"	Ment. Phil.	Math. & N.P.
"	Robert John Tainsh Bell, "	Math. & Nat. Phil.	"	
"	Thomas Pullar, . . . "	Math. & Nat. Phil.	"	Math. & N.P.
"	Joseph White, . . . "	Math. & Nat. Phil.	"	
"	Hugh Brown, . . . "	"	Math. & N.P.	M. & N.P.
"	Peter Lowson, . . . "	"	Math. & N.P.	
"	John Jeffrey, . . . "	"	"	English.
"	Helen Margaret Rule, "	English.	"	
"	Henry Murphy, . . . "	"	"	English.
"	Henry Givan Webber, "	"	"	
1899	Samuel F. H. Mackay, "	Classics.	"	M. Lang.
"	Archibald Main, . . . "	Mental Philosophy.	"	
"	John Edgar, . . . "	English.	"	Classics
"	Maude Gertrude May, England,	English.	"	
"	Alexander D. Lindsay, Scotland,	"	Classics.	M. Lang.
"	Charles G. M'Ilravey, Ireland,	"	Classics.	
"	Gordon B. Nielson, . Scotland,	"	English.	M. Lang.
"	Jessie Lyon Gilchrist, "	"	Mod. Lang.	
"	Minnie Louise Arthur, "	"	"	Classics
"	David M. Stewart, . . . "	Math. & Nat. Phil.	"	
"	John Lochhead, . . . "	English.	History.	Classics
"	Ritchie Girvan, . . . "	English.	"	
"	John Anderson, . . . "	"	Classics, Math. & N.P.	Classics.
"	William A. Edward, . England,	Classics.	"	
"	James Sheridan, . . . Scotland,	Classics.	"	Classics.
"	James M'Clelland, . . . "	"	Classics.	
"	James Faulds, . . . "	"	"	Classics.
"	Arch. M. Macmillan, B.Sc., "	Math. & Nat. Phil.	"	
"	David K. Picken, . . . "	Math. & Nat. Phil.	"	Math. & N.P.
"	Robert W. Stewart, . . . "	"	"	
"	Katharine T. M'Millan, "	English.	"	Classics.
"	George Ogilvie, . . . "	English.	"	
"	Janet Spens, . . . "	English.	"	Classics.
1900	Mabel Atkinson, . . . England,	Mental Philosophy.	Classics.	
"	George H. Stevenson, Scotland,	Classics.	"	Classics.
"	Robert B. Carslaw, . . . "	Math. & Nat. Phil.	"	
"	Peter Ramsay, . . . "	Math. & Nat. Phil.	"	Classics.
"	James Jack, . . . "	"	Classics.	
"	Norman R. Mitchell, . . . "	"	Classics.	Ment. Phil.
"	Matthew Babington, . . . "	"	Ment. Phil.	
"	Peter Lowe, B.Sc., . . . "	"	Math. & N.P.	

			First Class.	Second Class.	Third Class.
1900	Winifred Boyd, .	India,		English.	
..	Margaret G. Fulton, .	Scotland,		Mod. Lang.	
..	James Johnston, .	do.,	Mental Philosophy.		
..	Alex. B. Mackay, .	do.,	Mental Philosophy.		
..	Alexander Montgomerie, .	do.,	Mental Philosophy.	¹ History.	
..	David G. Taylor, .	do.,	Math. and Nat. Phil.		
..	Margaret L. Anderson, .	do.,	² Classics.		
..	Peter George Smith, .	do.,	English.		
..	John Charles Mann, .	England,		Ment. Phil.	
..	Roderick M. Nicol, .	Scotland,		Math. & N. P.	
..	James Miller Clark, .	do.,		Math. & N. P.	
1901	James F. Dyer, .	Japan,	Classics.		M. & N. P.
..	Peter Hatley Waddell, .	Singapore,	² Economic Science.		
..	Francis P. H. Stirling, .	Scotland,	Classics.		
..	Hugh Watt, .	do.,	Math. and Nat. Phil.		
..	Marion K. Binnie, .	do.,	English.		
..	William H. Buchan, .	do.,	Modern Languages.		
..	Owen L. Jones, .	Wales,		Classics.	
..	Thomas R. M'Murtrie, .	Scotland,		Classics.	
..	Alexander Russell, .	do.,		Classics.	
..	Andrew M'Kerral, .	do.,		Math. & N. P.	
..	Arthur S. Hutchison, .	do.,			Classics.
..	³ Thomas Jones, .	do.,	Economic Science.		
..	Dougald B. M'Quistan, .	do.,	Math. and Nat. Phil.	Classics.	
..	Steuart N. Miller, .	do.,	Classics.		
..	Charles A. Young, .	do.,	English.		
..	Stanley H. Turner, .	England,	Economic Science.		
..	John J. Gemmell, .	Scotland,		Classics.	
..	Thomas Graham, .	do.,		Classics.	
..	Jas. G. MacDonald, .	Br. Cen. Africa,		Classics.	
..	James Moyes, .	Scotland,		Classics.	
..	William R. Wiseman, .	do.,		Ment. Phil.	
..	James N. Stirling, .	do.,		Math. & N. P.	
..	Catherine Bennie, .	do.,		Mod. Lang.	
..	James H. Steel, .	do.,		Econ. Sc.	
1902	Margaret A. Scott, .	do.,	Modern Languages.		
..	James M'Nabb, .	do.,		Math. & N. P.	
..	Helen M. Armour, .	do.,		English.	
..	Alexander Mackinnon, .	do.,		English.	
..	Edith M. Lindsay, .	do.,		History.	
..	⁴ Frederick Mort, .	do.,			M. & N. P.
..	⁴ John Patterson, .	do.,	English.		
..	⁵ John Macdonald Richardson, .	do.,			Ec. Sc.
..	⁵ Christian Pettigrew Home	do.,			
..	Morton, .	do.,		Mod. Lang.	
..	⁵ Malcolm MacAlister, .	do.,		English.	

¹ Postgraduate Honours in Oct., 1901.² Postgraduate Honours in April, 1901.³ Took the Ordinary Degree in Nov., 1900.⁴ Took the Ordinary Degree in April, 1900.⁵ Took the Ordinary Degree in April, 1901.

		First Class.	Second Class.	Third Class.
1902	Wm. Lindsay Thompson, Scotland,	Math. and Nat. Phil.	Classics.	
"	William Holms Coats, . do.,	Classics.		
"	Robert Kerr Goodfellow, . do.,	Classics.		
"	John MacInnes, . . do.,	Classics.		
"	Eric James Roberts, . England,	Mental Philosophy.		
"	Robert Alex. Houston, Scotland,	Math. and Nat. Phil.		
"	Mary Clow Cameron, . do.,	Modern Languages.		
"	George Stewart, . . do.,	History.		
"	George Douglas Reith, . do.,	. . . . .	Classics.	
"	Archie Duncan Thomson, do.,	. . . . .	Mental Phil.	Classics.
"	Oliver Dryer, . . do.,	. . . . .	Classics.	
"	John Gordon, . . do.,	. . . . .	Classics.	
"	John Orr, . . do.,	. . . . .	Classics.	
"	Frank William Saunders, do.,	. . . . .	Classics.	
"	Margaret Hay Livingston, do.,	. . . . .	Math. & N.P.	
"	John Henderson Stewart, do.,	. . . . .	Math. & N.P.	
"	Maggie Chalmers, . do.,	. . . . .	Mod. Lang.	
"	Robert Millar, . . do.,	. . . . .		M. & N.P.
"	Peter MacMillan, . do.,	. . . . .		History.
1903	George Stuart Gordon, do.,	Classics.		
"	Archibald Lang, . do.,	Math. and Nat. Phil.		
"	James Hamilton Lindsay, do.,	Math. and Nat. Phil.		
"	John Reid Cameron, . do.,	English.		
"	Mary Emilie Thomson, do.,	Modern Languages.		
"	George Beaumont, . England,	. . . . .	Classics.	
"	Jas. Aitchison Milligan, Scotland,	. . . . .	Classics.	
"	Matthew Stewart, . do.,	. . . . .	Classics.	
"	Harold Wilson, . . do.,	. . . . .	Classics.	
"	¹ Alexander Borland, . do.,	. . . . .	Mental Phil.	
"	Muriel Giffen Lindsay, do.,	. . . . .	Math. & N.P.	
"	William M'Naught, . do.,	. . . . .	Math. & N.P.	
"	Charles M'gee Wright, Ireland,	. . . . .		Classics.
"	James Campbell Moir, Scotland,	. . . . .		M. & N.P.
"	Wm. Scott Branks Wilson, do.,	. . . . .		M. & N.P.
"	William Sutherland, . do.,	Math. and Nat. Phil.	History.	
"	Robert R. Rusk, . . do.,	Mental Philosophy.		
"	John W. Scott, . . do.,	Mental Philosophy.		
"	Samuel N. Forrest, . do.,	Math. and Nat. Phil.		
"	Robert Hamilton, . . do.,	Math. and Nat. Phil.		
"	Robert Jack, . . do.,	Math. and Nat. Phil.		
"	William Miller, . . do.,	Math. and Nat. Phil.		
"	Mary C. Biggar, . . do.,	Modern Languages.		
"	Janet Green, . . South Africa,	Modern Languages.		
"	Alice M. B. Guthrie, Scotland,	Modern Languages.		
"	Robert W. Barr, . . do.,	. . . . .	Classics.	
"	Peter Marshall, . . do.,	. . . . .	Classics.	
"	Alexander Moffat, . . do.,	. . . . .	Classics.	
"	James H. Stevenson, Canada,	. . . . .	Classics.	
"	Robert M. Morison, . Scotland,	. . . . .	Math. & N.P.	
"	Mary Barrowman, . . do.,	. . . . .	Mod. Lang.	
"	Robert Cunningham, . do.,	. . . . .		Classics.

¹Took the Ordinary Degree in April, 1901.

			First Class.	Second Class.	Third Class.
1903	Harry J. Phillips, .	Scotland,			Classics.
1904	James M. Devine, .	do.,	Classics.		
„	William Manson, .	do.,	Classics.		
„	Charles G. Nelson, .	do.,	Classics.		
„	Annie Jane Arnott, .	do.,	Modern Languages.		
„	Elizabeth W. Scott, .	do.,	Modern Languages.		
„	William J. Auld, .	do.,		Classics.	
„	Adam Patrick, .	do.,		Classics.	
„	Arthur Shepherd, .	do.,		Classics.	
„	Arthur Craig, .	England,		Mod. Lang.	
„	James P. Mackay, .	Scotland,			M.&N.P.

BACHELORS OF SCIENCE (B.Sc.). (O.R.)

			Honours.	
			Natural Science.	Engineering Science.
1879	Robert F. Muirhead, C.E.,	Scotland,		Math. & Nat. Phil. II
1882	John Cleland, C.E., .	do.,		Math. & Nat. Phil. II
1883	John M'Cowan, C.E., .	do.,		Math. & Nat. Phil. II
1884	William Weir, .	do.,		Math. & Nat. Phil. II
„	James C. Todd, .	India,	Math. & Nat. Phil. II	
1886	Lawrence Crawford, .	Scotland,		Math. & Nat. Phil. I
1887	Angus M'Lean, .	do.,		Math. & Nat. Phil. II
1890	James Stanley Muir, .	do.,	Chemistry.	
„	Robert Watson Smith, .	do.,	Chemistry.	
1891	James Fenwick, .	Australia,		Civil Engineering.
„	Robert Main, .	Scotland,	Chemistry.	
„	Robert Muir Ferrier, .	do.,		Civil Engineering.
1892	John Dewar Cormack, .	do.,		Math. & Nat. Phil. I
„	Jas. Blacklock Henderson, .	do.,		Civil Engineering.
„	James Rankin, .	do.,		Math. & Nat. Phil. I
„	William S. Cook, .	do.,		Math. & Nat. Phil. I
„	David R. Boyd, .	do.,		Civil Engineering.
1893	James C. Robertson, M.A.,	do.,	Anat. and Physiol.	
1894	Charles Forbes, .	do.,		Civil Engineering.
„	Wm. Henry Lang, .	England,	Botany and Zoology.	
„	George Wm. Shearer, .	Ireland,		Civil Engineering.
1895	Wm. Craig Henderson, .	Scotland,		Math. & Nat. Phil. I
„	Hugh Calderwood, .	do.,	Anat. and Physiol.	
„	John Allan Craigie Macewen, .	do.,	Anat. and Physiol.	
„	William Hamilton, .	do.,		Civil Engineering.
„	Campbell Macmillan, .	do.,		Civil Engineering.
„	Thomas Hunter, M.A., .	do.,	Anat. and Physiol.	
„	William Martin, M.A., .	do.,	Anat. and Physiol.	
1896	William S. Templeton, M.A.,	do.,		Math. & Nat. Phil. I
„	Peter L. L. Craig, M.A.,	do.,	Anat. and Physiol.	

BACHELORS OF SCIENCE (PURE SCIENCE).

Ordinance No. 12, Section ix. (1889).

Subjects of Final Examination.

		Anatomy.	Physiology.	Zoology.	
1898	John Pinkerton Duncan, . . .	Anatomy.	Physiology.	Zoology.	
"	Ruth Pirret, . . .	Mathematics.	Chemistry.	Physiology.	
"	Daisy Annabella Murdoch Clark, . . .	Physiology.	Zoology.	Botany.	
"	William Anderson Lindsay, M.A., . . .	Mathematics.	Nat. Phil.	*Astronomy.	
"	Allan Martin, M.A., . . .	Anatomy.	Physiology.	Zoology.	
1899	Robert John Tainsh Bell, M.A., . . .	*Mathematics.	*Nat. Phil.	*Astronomy.	
"	Robert Macfarlane Clark, . . .	*Mathematics.	*Nat. Phil.	Chemistry.	
"	William Anderson, . . .	*Mathematics.	*Nat. Phil.	*Astronomy.	
"	James Slater Dunlop, M.A., . . .	Mathematics.	Nat. Phil.	Astronomy.	
"	Robert William Stewart, . . .	*Mathematics.	*Nat. Phil.	Chemistry.	
"	Robert George White, M.A., . . .	Anatomy.	Physiology.	Zoology.	
1900	Gertrude Dorman Bostock, . . .	Anatomy.	Physiology.	Zoology.	
"	Kate Fraser, . . .	Anatomy.	*Physiology.	Zoology.	
"	William Fulton, M.A., . . .	*Mathematics.	Nat. Phil.	*Astronomy.	
"	William Boyd, M.A., . . .	Chemistry.	Geology.	Zoology.	
"	Joseph White, M.A., . . .	*Mathematics.	*Nat. Phil.	Anatomy.	Physiology.
1901	James Miller Clark, M.A., . . .	Mathematics.	Nat. Phil.	*Astronomy.	
"	James Alex. Russell Henderson, . . .	Mathematics.	Chemistry.	Geology.	
"	Ivy M'Kenzie, M.A., . . .	Anatomy.	Physiology.	Zoology.	
"	Alexander Matheson, M.A., . . .	Anatomy.	Physiology.	Zoology.	
"	Alexander Wood, . . .	Mathematics.	Nat. Phil.	*Astronomy.	
"	Robert Donald, . . .	Chemistry.	Geology.	Zoology.	
"	Malcolm Hutton, M.A., . . .	Anatomy.	Physiology.	Zoology.	
"	William Hyslop, M.A., . . .	*Mathematics.	*Nat. Phil.	Geology.	
"	Jane Hamilton M'Iroy, M.A., . . .	Physiology.	Zoology.	Botany.	
"	John Muir, . . .	Anatomy.	Physiology.	Geology.	
1902	Frederick Mort, M.A., . . .	Mathematics.	Nat. Phil.	Geology.	
"	George Goldie Smith, . . .	Anatomy.	Physiology.	Zoology.	
"	Alfred Walter Stewart, . . .	Mathematics.	Chemistry.	Geology.	
"	David James M'Leish, M.A., . . .	Anatomy.	Physiology.	Zoology.	
"	Berkeley Hope Robertson, M.A., . . .	Physiology.	Geology.	Zoology.	
1903	John Graham, . . .	Chemistry.	Anatomy.	Physiology.	
"	Robert Irvine, M.A., . . .	Mathematics.	Astronomy.	Geology.	
"	Jessie Deans Rankin, M.A., . . .	Anatomy.	*Physiology.	Zoology.	
"	Wm. Lindsay Thompson, M.A., . . .	*Mathematics.	*Nat. Phil.	Geology.	
"	Thomas Barbour, . . .	Mathematics.	Nat. Phil.	Physiology.	
"	Robert A. Houston, M.A., . . .	*Mathematics.	*Nat. Phil.	*Astronomy.	
"	Thomas M'Crick, M.A., . . .	Geology.	*Zoology.	Botany.	
"	Dougald B. M'Quistan, M.A., . . .	*Mathematics.	*Nat. Phil.	*Astronomy.	
"	John H. Stewart, M.A., . . .	Mathematics.	Nat. Phil.	*Astronomy.	
1904	John Anderson, M.A., . . .	Physiology.	Geology.	Zoology.	
"	John Campbell, . . .	Mathematics.	Nat. Phil.	Chemistry.	
"	Samuel N. Forrest, M.A., . . .	*Mathematics.	*Nat. Phil.	Chemistry.	
"	Sampachi Fukuzawa, . . .	Mathematics.	Nat. Phil.	Chemistry.	
"	Louis Niel Gow, M.A., . . .	Mathematics.	Nat. Phil.	Chemistry.	
"	John Isdale Greig, M.A., . . .	Anatomy.	Physiology.	Botany.	
"	James Hunter, M.A., . . .	Mathematics.	Nat. Phil.	Astronomy.	
"	Harry S. Hutchison, . . .	Chemistry.	Anatomy.	Physiology.	

*The asterisks indicate Special Distinction in the subjects to which they are prefixed.

BACHELORS OF SCIENCE (ENGINEERING).

Ordinance No. 23, Section xiii. (1889).

The Italics denote Graduates on the Naval Architecture side.

		<i>With Special Distinction in</i>
1895	<i>Daniel Chaplin Nutting.</i>	
„	Adam Gowans Whyte.	
1896	Oliver Styles.	
„	James Muir,	{ Engineering and Drawing. Astronomy and Geodesy.
1897	John Frederick Black.	
„	James Henry Grieve.	
„	Peter Lowe.	
1898	Andrew Dunn.	
„	James Weir French.	
„	<i>James Paton.</i>	
„	Owen Richard Williams.	
„	Archibald Morven Macmillan, . . .	{ Mathematics. Natural Philosophy. Engineering and Drawing.
„	Hugh Wallace,	{ Mathematics. Engineering and Drawing.
„	Hugh Munro.	
„	John Warrack.	
1899	James Malcolm Bell.	
„	Hjalmar Berg.	
„	Andrew Marshall Downie.	
„	John Gordon Henderson.	
„	Stephen Hutchison.	
„	James Rae M'Intosh.	
„	John Steel Nicholson.	
„	David Robertson,	{ Engineering and Drawing. Electricity—Pure and Applied.
„	William Guthrie Strang,	{ Mathematics. Natural Philosophy. Engineering and Drawing. Geology and Mineralogy.
„	William Walker.	
„	William Renfrew Wilson.	
„	<i>Einar Bull.</i>	
„	<i>Charles Stuart Douglas.</i>	
„	George Alexander Inglis.	
„	William Henry Fullarton Murdoch.	
„	William Valentine Shearer.	
„	Archibald Craig Walker.	
1900	<i>John Hutchison Barbour.</i>	
„	Anthony Cathcart Coubrough, M.A.	
„	<i>Robert Morton Dyer.</i>	
„	<i>John Gavin Johnstone.</i>	
„	Charles Selby Lennox MacFarlane.	
„	<i>Hugh Millar MacMillan.</i>	
„	<i>James Vost.</i>	

With Special Distinction in

1900	Alexander Houston Weddell, . . .	{ Natural Philosophy. Engineering and Drawing. Electricity—Pure and Applied.
..	Archibald Leitch.	
..	John Nanscawen Dawe.	
..	James Aitchison.	
..	William Henry Ballantyne, . . .	Electricity—Pure and Applied.
1901	James Craig.	
..	John Francis Henderson.	
..	Carolus Marie.	
..	George Macmillan Young.	
..	William Bryson.	
..	Robert Thomson Neilson.	
..	James Neilson Stirling, . . .	{ Mathematics. Natural Philosophy.
..	Andrew Hepburn Whitelaw.	
..	Alfred John Wilson, . . .	{ Mathematics. Engineering and Drawing.
1902	William George Burn.	
..	James Miller Clark, M.A., . . .	Astronomy and Geodesy.
..	John Fairley.	
..	John Clowes Fairlie.	
..	Thomas Macmillan Hunter, M.A., . . .	Mathematics.
..	Duncan Robert MacLachlan, . . .	Engineering Laboratory—Electrical.
..	Thomas Bonner Morley, . . .	{ Mathematics. Natural Philosophy. Engineering and Drawing.
..	James Muirhead, . . .	{ Engineering and Drawing. Engineering Laboratory—Electrical.
..	James Valence Nimmo, . . .	Natural Philosophy.
..	Alexander Williamson.	
..	Robert Ernest Workman, . . .	Mathematics.
..	John Graham Young.	
..	<i>William M'Gill Gray.</i>	
..	William Barnett Harvey.	
..	William Campbell Houston, . . .	{ Engineering and Drawing. Electricity—Pure and Applied.
..	Niel Boyd Macmillan.	
..	John Findlay Muir.	
..	<i>William Frank Robertson.</i>	
..	Kouji Satow.	
..	Frederick Robert Stewart.	
1903	Hugh de Paynesley Birkett.	
..	William Henry Dorman Bostock.	
..	William Jackson Crawford.	
..	Thomas Grant Dempster.	
..	<i>James Black Dickie.</i>	
..	James Gordon Gray, . . .	{ Mathematics. Natural Philosophy. Physical Laboratory. Electricity—Pure and Applied.
..	Charles Henry Lobban.	
..	Hugh Alexander Mackay.	

¹ Graduated B.Sc. in Pure Science, 1901.

		<i>With Special Distinction in</i>
1903	Neil John Maclean,	{ Natural Philosophy. Engineering and Drawing. Electricity—Pure and Applied. Engineering Laboratory—Electrical.
..	John Martin,	
..	Clive Macfarlane Primrose.	
..	Fryer Thomas Acheson Smyth.	
..	<i>James Edward Steele.</i>	
..	James Summers,	{ Physical Laboratory. Engineering and Drawing. Electricity—Pure and Applied. Engineering Laboratory—Mechanical.
..	John Younger,	{ Natural Philosophy. Physical Laboratory. Electricity—Pure and Applied.
..	James Gray,	
..	Robert Blair.	
..	Robert Crichton.	
..	Richard Frederick Hartley,	Engineering Laboratory—Mechanical.
..	William Carrick Howat.	
..	James Howden.	
..	John Alexander M'Crindle.	
..	John Ernest MacDougall.	
..	<i>John Alexander Gowans Tainsh.</i>	
..	Henry Owen Weller.	
1904	Bernard Inman Franklin Adams,	Physical Laboratory.
..	Robert Douglas Archibald,	{ Natural Philosophy. Engineering and Drawing.
..	Hubert Noel Beilby.	
..	Robert Bilsland,	Physical Laboratory.
..	<i>Ejnar Bondegaard,</i>	Physical Laboratory.
..	John Brown.	
..	James Richardson Coats.	
..	Henry James Morrison Cousens,	{ Mathematics. Natural Philosophy. Physical Laboratory. Engineering and Drawing. Engineering, Class III.
..	George Mather Craig.	
..	Bernard Parker Haigh,	{ Natural Philosophy. Physical Laboratory. Engineering and Drawing. Engineering Laboratory—Electrical.
..	Harry Fairlie Hodge.	
..	Duncan John Kerr,	{ Mathematics. Natural Philosophy. Engineering and Drawing. Electricity—Pure and Applied.
..	<i>Carlo La Torre.</i>	
..	John Alexander MacConnell.	
..	John Maxwell Scott Maxwell.	
..	Michael Spartali.	
..	Robert Ure,	{ Mathematics. Natural Philosophy.
..	John Whitehead.	

DOCTORS OF MEDICINE (M.D.). (O.R.) HONOURS.

1845	Alexander Lindsay,	Scotland.	1853	Richard Stanistreet,	Ireland.
"	James Craigie Murray,	do.	"	David Knox,	do.
"	Francis Reynolds,	Ireland.	1854	John Lindsay Stewart,	Scotland.
"	John Brown,	Scotland.	"	James Fraser Paton,	do.
"	John Gardiner,	do.	"	David Easton,	Ireland.
"	Donald Cameron,	Isle of Man.	1855	William Leishman,	Scotland.
"	Adam Nicholson,	Scotland.	"	William J. Lewis,	New Brunswick
"	John Duke,	Ireland.	"	Alexander Robertson,	Scotland.
1847	William Parry,	Wales.	1857	Thomas Beaumont,	Ireland.
"	Robert Livingstone,	Scotland.	"	Joseph M. Fleming,	Scotland.
"	Alexander B. Sharpe,	do.	"	Maxwell Rodgers,	Ireland.
1848	Charles H. Hitchen,	England.	1858	John Couper,	Scotland.
"	James Steven,	Scotland.	"	Thomas M'Call Anderson,	do.
"	John Coates,	Ireland.	1859	Daniel Dougal,	do.
1849	Robt. Brown M'Clelland,	do.	1861	William Marshall,	America.
"	Thomas Nicholson,	Scotland.	"	John M. Murray,	Scotland.
"	Robert Settle,	England.	1862	James A. Allan,	do.
"	Richard Thomas Tracy,	Ireland.	1863	Robert M'K. Duncan,	do.
"	Matthew John Rae,	Scotland.	"	George M'Donald,	do.
1850	John Ternan,	Ireland.	"	Samuel J. Moore,	Ireland.
"	John Henry Eddowes,	England.	"	William Fraser,	Nova Scotia.
"	James Brash,	Scotland.	"	T. Algernon Chapman,	Scotland.
1851	Alexander Marshall,	do.	"	Algernon Wood Smith,	do.
"	Andrew Spearing,	Ireland.	"	John P. Atkinson,	England.
"	James B. Montgomery,	England.	1864	John Wyber,	Scotland.
"	Robert Perry,	Scotland.	"	John G. Wilson, M.A.,	do.
"	John Watson, B.A.,	do.	1865	Arthur A. Jamieson,	England.
1853	John Ritchie Brown,	do.	1867	Fred. H. Quaife, M.A.,	Sydney, N.S.W.
"	Charles D. Campbell,	Ireland.			

DOCTORS OF MEDICINE (M.D.). (N.R.)

- 1876 ¹ Gardner, William, M.B., England.
- 1877 ¹ Turner, William Y., M.B., Scotland. Thesis, "The Ethnology of the Motu."
- 1879 ¹ Fleming, William James, M.B., Scotland. Thesis, "The Dierotic Notch in Pulse Tracings."
- 1880 ¹ Oliver, Thomas, M.B., Scotland. Thesis, "Hereditv viewed in its relation to Responsibility."
- 1880 ¹ Bryce, James, M.B., Scotland. Thesis, "That Mankind originated as a Common Family—most probably on a Continent in the Indian Ocean—certainly within the Tropics."
- 1881 ¹ Adams, James Alexander, M.B., Scotland. Thesis, "Anatomical Relation between Abscess of Brain and Aural Disease."
- 1881 ¹ Stewart, Alexander, M.B., Scotland. Thesis, "History of a Personal Attack of Typhoid Fever."
- 1881 ¹ Drummond, James, M.B., Scotland. Thesis, "Sea Sickness: its Etiology, Symptoms, and Treatment."
- 1881 ¹ Macphail, Donald, M.B., Scotland. Thesis, "Chemical Investigations on the Degenerative Changes in Diseased Bone."
- 1882 ¹ Cairns, David, M.B. Thesis, "An Outbreak of Pyæmia."

¹ Commended for Thesis.

- 1882 ¹ Adam, Thomas Bate, M.B., Scotland. Thesis, "The Pathology and Etiology of Elephantoid Disease."
- 1882 ¹ Rankin, Guthrie, M.B., Scotland. Thesis, "Puerperal Fever."
- 1883 ¹ Inglis, David Wood, M.A., M.B., Scotland. Thesis, "On the Prevention of Lead Poisoning among Workers in White Lead Factories."
- 1883 ¹ Newman, David, M.B., Scotland. Thesis, "Displacements of the Kidney."
- 1884 ¹ Lawrie, J. Macpherson, M.B., Scotland. Thesis, "On some Symptoms of Locomotor Ataxy."
- 1884 ¹ Allan, Robert, M.B., Scotland. Thesis, "Dermoid Cysts."
- 1884 ² Middleton, George S., M.A., M.B., Scotland. Thesis, "On the Pathology of Pseudo-Hypertrophic Muscular Paralysis."
- 1884 ² Steven, John Lindsay, M.B., Scotland. Thesis, "The Pathology of Suppurative Inflammations of the Kidneys."
- 1885 ² Mackay, John Yule, M.B., Scotland. Thesis, "The Origin and Development of the Larger Arteries."
- 1885 ¹ Macvie, William, M.B., Scotland. Thesis, "Atrophic Infantile Paralysis."
- 1885 ¹ Dougal, James, M.B., Scotland. Thesis, "Puerperal Pyrexia."
- 1886 ¹ Lawrie, William John, M.B., Scotland. Thesis, "Pathological Formations of the Skin."
- 1886 ² Somerville, William Francis, M.A., B.Sc., M.B., Scotland. Thesis, "Urosemiotic; the Pathological Chemistry of the Urine, the complete Quantitative Analysis of the Urine; a valuable aid to Clinical Diagnosis."
- 1886 ² Stewart, Robert Sloss, M.B., Scotland. Thesis, "Observations on the Spinal Cord in the Insane."
- 1886 ¹ Rankin, Alexander, M.B., Scotland. Thesis, "Cerebral Cases, with remarks."
- 1886 ¹ Auld, Alexander Gunn, M.B., Scotland. Thesis, "Studies in Materia Medica."
- 1887 ¹ Chalmers, Archibald Kerr, M.B., Scotland. Thesis, "The Temperature Curve of Specific Fevers."
- 1887 ¹ Neilson, Henry John, M.B., Scotland. Thesis, "On the observation of the pupil as a guide in the administration of Chloroform."
- 1887 ¹ Brown, John, M.B., Scotland. Thesis, "Maternal Impressions."
- 1887 ¹ Love, John, M.B., Scotland. Thesis, "Three cases of Cortical Epilepsy considered in relation to the localization of the discharging lesion."
- 1888 ¹ Finlay, David, M.B., Scotland. Thesis, "Clinical Observations on Epileptic Insanity."
- 1888 ¹ Love, James Kerr, M.B., Scotland. Thesis, "The Limits of Hearing."
- 1888 ¹ Macpherson, Charles, M.B., Scotland. Thesis, "Plural Pregnancies."
- 1888 ¹ Wallace, William, M.B., Scotland. Thesis, "The Field of Vision: with special reference to its Anomalies in Diseases of the Nervous System."
- 1889 ¹ Christie, William Walls, M.B., C.M., Scotland. Thesis, "The Outbreak of Febrile Disease in St. Mary's Roman Catholic Industrial Schools, Glasgow, March 1888: its Clinical Features and Nature."
- 1889 ¹ Kelly, James Kellock, M.B., Scotland. Thesis, "Private Obstetric Practice: an analysis of 3000 consecutive cases."
- 1889 ¹ Mackenzie, William James, M.B., India. Thesis, "The effects of the conditions of London Life on the Nervous System: with remarks on the treatment."
- 1889 ¹ Hinshelwood, James, M.A., M.B., Scotland. Thesis, "A Clinical Study of Syphilitic Diseases of the Nervous System."
- 1890 ¹ Anderson, John Alexander, M.B., Scotland. Thesis, "On Tetanus: with a record of six cases."
- 1890 ¹ Bankier, Alexander Milne, M.B., England. Thesis, "Influenza."
- 1891 ¹ Smith, John Macdowal, M.B., Scotland. Thesis, "The Disposal of Sewage and City Refuse."
- 1891 ³ Rhodes, Hugh, M.B., C.M., England. Thesis, "Koch's Treatment in Phthisis and Lupus."

¹ Commended for Thesis.² Highly Commended.³ With Honours.

- 1891 ¹ Bannatyne, Gilbert Alexander, M.B., C.M., Scotland. Thesis, "The Treatment of Diphtheria by the Injection of the Erysipelas Albumose."
- 1891 ¹ M'Gregor, Andrew Nicholson, M.B., C.M., Scotland. Thesis, "Some Notes on the Repair of Bone, with special reference to Transplantation and other Artificial Aids."
- 1891 ¹ Ramsay, Andrew Maitland, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre."
- 1891 ¹ Johnstone, John Carlyle, M.B., C.M., Scotland. Thesis, "Some Notes on the use of Sulphonal."
- 1892 ¹ Highet, Hugh, M.B., C.M., Scotland. Thesis, "The Bronchiopneumonia of Influenza, as it occurs in the Adult Subject."
- 1892 ¹ Park, Alexander Glen, M.B., C.M., Scotland. Thesis, "Defects of Speech."
- 1893 ¹ Lang, Hugh, M.B., C.M., Scotland. Thesis, "Empyema, with Notes on a Series of Cases."
- 1893 ¹ Gillies, Hugh Cameron, M.B., C.M., Scotland. Thesis, "The Theory of Counter-irritation."
- 1893 ² Carslaw, John Howie, M.A., M.B., C.M., Scotland. Thesis, "On the severer forms of Scarlet Fever, with special reference to Antipyretic Methods of Treatment."
- 1893 ¹ Adam, Robert Hillhouse, M.A., M.B., C.M., Scotland. Thesis, "Observations on some Enteric Fever Epidemics."
- 1893 ¹ Bryce, Alexander, M.B., C.M., Scotland. Thesis, "Sanitation in Dairy Farms in relation to diseases attributable to Cows' Milk."
- 1893 ¹ Dunlop, Alexander Watson, M.A., M.B., C.M., Scotland. Thesis, "A recent Epidemic of Smallpox, with some remarks on Re-Vaccination."
- 1893 ¹ Gemmell, William, M.B., C.M., Scotland. Thesis, "On the Treatment of Phthisis by a long Sea Voyage in a sailing ship."
- 1893 ¹ Watson, William, M.B., C.M., Scotland. Thesis, "The Prevention and Treatment of Diphtheria."
- 1894 ¹ Johnston, John M'Cubbin, M.A., M.B., C.M., Scotland. Thesis, "The Prognosis of Acute Lobar Pneumonia in the Pauper Class."
- 1894 ² Jack, William Robert, B.Sc., M.B., C.M., Scotland. Thesis, "Observations on the Analysis of Voluntary Muscular Movements by certain new Instruments."
- 1895 ¹ Abercrombie, Peter Henderson, M.B., C.M., Scotland. Thesis, "Turbinotomy in Nasal Stenosis: Analysis and Notes of 66 cases."
- 1895 ² Monro, Thomas Kirkpatrick, M.A., M.B., C.M., Scotland. Thesis, "Essays in Neurology; Historical and Clinical."
- 1895 ¹ Banks, Charles, M.B., C.M., Scotland. Thesis, "Observations on Epidemics of Cholera in India with special reference to their immediate connection with pilgrimages."
- 1895 ¹ Bell, Andrew Lees, M.B., C.M., Scotland. Thesis, "The Influence of a previous sire, and its relation to maternal impressions."
- 1895 ¹ Campbell, Finlay Stewart, M.B., C.M., Scotland. Thesis, "Paroxysmal Haemoglobinuria: its treatment with special reference to the arrest of the Paroxysm by Quinine."
- 1895 ¹ Charles, John, M.B., C.M., Scotland. Thesis, "A contribution to the Meteorology of Sporadic Pneumonia."
- 1895 ¹ Macgregor, John, M.B., C.M., Scotland. Thesis, "On Paralysis following Diphtheria in Children."
- 1895 ¹ Edington, George Henry, M.B., C.M., Scotland. Thesis, "Bile Salts (Glycocholate and Taurocholate Soda) in relation to excretion of Urea, etc."
- 1895 ¹ Hughes, Arthur Davies, M.B., C.M., Wales. Thesis, "Anchylostomiasis."
- 1895 ¹ Marr, Hamilton Clelland, M.B., C.M., Scotland. Thesis, "On Myxoedema and the Functions of the Thyroid Gland: with notes on the treatment of certain cases of Insanity by Thyroid preparations."

¹ Commended for Thesis.² With Honours.

- 1896 ¹ Marshall, Robert James, M.B., C.M., Scotland. Thesis, "The mild Malaria Fevers and their Microbe."
- 1896 ¹ Dittmar, Frederick, M.A., M.B., C.M., Scotland. Thesis, "Scarlatinal Albuminuria."
- 1896 ¹ Gray, Albert Alexander, M.B., C.M., Scotland. Thesis, "An Investigation into some of the Principles of Auscultation."
- 1896 ¹ Nisbet, Adam Thomson, M.B., C.M., Scotland. Thesis, "Observations on some cases of Liver Abscess."
- 1896 ¹ Todd, James, M.B., C.M., Scotland. Thesis, "Puerperal Scarlatina."
- 1896 ² Kennedy, Robert, M.A., B.Sc., M.B., C.M., Scotland. Thesis, "Studies on the Regeneration of Nerves."
- 1896 ¹ Kirkland, Thomas Speirs, M.B., C.M., Scotland. Thesis, "Quinine Amaurosis."
- 1897 ¹ Don, William Walton, M.B., C.M., England. Thesis, "Thyroid Therapeutics."
- 1897 ¹ Hunter, Walter King, B.Sc., M.B., C.M., Scotland. Thesis, "A contribution to the Etiology of Beri-Beri."
- 1897 ¹ Thomson, James, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre, with special reference to its treatment by Thymus Gland."
- 1897 ²³ Thomson, Robert Stevenson, B.Sc., M.B., C.M., Scotland. Thesis, "Pertussal Glucosuria, with observations on the reduction of Fehling's solution by the urine in childhood."
- 1897 ¹ Brownlee, John, M.A., M.B., C.M., Scotland. Thesis, "The Diagnosis and Hospital Administration of Scarlatina."
- 1897 ¹ Galloway, Andrew Fleming, M.B., C.M., Scotland. Thesis, "Movable Kidney: its Aetiology and Symptoms."
- 1897 ¹ Harris, David Fraser, B.Sc., M.B., C.M., Scotland. Thesis, "A Research into the Spectroscopy of Blood-pigment, and its derivatives in health and disease."
- 1897 ¹ Seright, William, M.B., C.M., Scotland. Thesis, "Neurasthenia (nervous exhaustion): a review of the origin and growth of the term, frequency of the disease, and of its chief forms and classifications, symptoms, diagnosis, prognosis, theories, and treatment."
- 1897 ¹ Temple, Lewis Dunbar, M.B., C.M., Scotland. Thesis, "Sporadic Cretinism and allied disorders."
- 1897 ¹ Wylie, Richard John, M.B., C.M., Scotland. Thesis, "Pneumonia, with notes on twenty-nine cases."
- 1898 ¹ M'Kenzie, Daniel, M.B., C.M., Scotland. Thesis, "Endemic Goitre, with particular reference to its occurrence in Lanarkshire, and to its Etiology."
- 1898 ¹ Bell, Robert Gordon, M.B., C.M., Scotland. Thesis, "Enteric Studies, chiefly in Aberrant Types."
- 1898 ²³ Findlay, John Waimann, M.B., C.M., Scotland. Thesis, "The Choroid Plexuses of the Lateral Ventricles, their Anatomy, Functions, and Pathology (in relation specially to Insanity)."
- 1898 ¹ Wilson, James Dunlop Octavus, M.B., C.M., Scotland. Thesis, "Adenoid Vegetations in the Nasopharynx; a Clinical and Pathological Study of 214 Cases."
- 1898 ¹ Biernacki, John Thomson, M.B., C.M., India. Thesis, "Secondary Microbic Invasion occurring in the course of the Commoner Fevers."
- 1898 ¹ Thomson, Henry Hyslop, M.B., C.M., Scotland. Thesis, "Epilepsy: a theory as to its probable cause, with some remarks regarding its relation to Insanity and Hysteria."
- 1898 ¹ Webster, Alfred, M.B., C.M., England. Thesis, "Cardiac Inhibition in relation to Cerebral Anæmia and Epileptiform Crises."

¹ Commended for Thesis.

² With Honours.

³ Gained a Bellahouston Gold Medal.

- 1899 ¹ Marshall, Campbell Samson, M.B., C.M., Scotland. Thesis, "Antistreptococcus Serum : its application in the treatment of Scarlatina Anginosa."
- 1899 ¹ Primrose, Edward James, M.A., M.B., C.M., Scotland. Thesis, "Notes on the Method and on the Diagnostic Value of the Serum Reaction (Widal's Test) in Enteric Fever; with a record of 149 examinations of Serum made in 57 cases of Enteric Fever, and in 22 other cases."
- 1899 ²³ Hawthorne, Charles Oliver, M.B., C.M., England. Thesis, "Studies in Clinical Medicine."
- 1899 ¹ Blair, David, M.A., M.B., C.M., Scotland. Thesis, "Acromegaly with Insanity."
- 1899 ¹ Gordon, John, M.B., C.M., Scotland. Thesis, "Tuberculin : as a remedy for Lupus, and its position as a Therapeutic Agent in the treatment of Phthisis Pulmonalis."
- 1899 ¹ Kerr, Hugh, M.A., M.B., C.M., Scotland. Thesis, "Recurrent Insanity."
- 1899 ¹ Scott, Robert, M.B., C.M., Australia. Thesis, "A review of Hydatid Disease in Australasia during the decennial period 1888-97."
- 1899 ²³ McKendrick, John Souttar, M.B., C.M., Scotland. Thesis, "Zymolysis of Tissue, Physiological and Pathological, with a historical *résumé* of the nature and action of Enzymes."
- 1899 ²³ Scobie, William, M.A., B.D., M.B., C.M., Scotland. Thesis, "The agglutinating reaction in Enteric Fever, with special reference to Prognosis."
- 1899 ¹ Gray, John Gilchrist, M.B., C.M., Scotland. Thesis, "Albuminuria and Nephritis occurring in connection with Scarlet Fever in combination with Varicella, the Varicella occurring during the acute stage or during the period of convalescence."
- 1899 ¹ Macbarg, William Edgar, M.B., C.M., Scotland. Thesis, "An analytical account of fifty-seven cases of Puerperal Infection."
- 1899 ¹ Ormond, James Service, M.B., Ch.B., Australia. Thesis, "Some results of treatment as illustrated by the Sphgmograph."
- 1900 ²³ James Fairlie Gemmill, M.A., M.B., C.M., Scotland. Thesis, "A Teratological Study."
- 1900 ¹ James Adam, M.A., M.B., C.M., Scotland. Thesis, "Remarks on the nature and treatment of Asthma."
- 1900 ¹ William Carrick Allan, M.B., C.M., Scotland. Thesis, "Extra-Uterine Pregnancy."
- 1900 ¹ John Laird Yuill, M.B., C.M., Scotland. Thesis, "On the Mental Deterioration in Epilepsy and Hemiplegia."
- 1900 ¹ Leslie Buchanan, M.B., C.M., Ireland. Thesis, "Cyclitis: a Study of the inflammatory exudates into the vitreous body in cases of Cyclitis."
- 1900 ¹ Malcolm Alexander McIntyre Sinclair, M.B., C.M., England. Thesis, "A Study in Aphasia, with special reference to some of its transitory manifestations."
- 1900 ¹ Annie Louise M'Iroy, M.B., Ch.B., Ireland. Thesis, "Tubal Gestation: its pathology and diagnosis, as illustrated by the record of twenty-two cases."
- 1901 ¹ Alfred George Newell, M.B., C.M., India. Thesis, "Insanitary Areas and Houses in Bombay and their relation to Plague, with schemes for improvement of Areas."
- 1901 ²³ David Louis Cairns, M.B., Ch.B., Scotland. Thesis, "Researches on the agglutinating and prophylactic properties of Blood Serum in cases of Plague, with observations on the haematology and bacteriology of the disease."
- 1901 ¹ John Aitken, M.B., Ch.B., Scotland. Thesis, "Blood Counts in the New Born."

¹ Commended for Thesis.² With Honours.³ Gained a Bellahouston Gold Medal.

- 1901 ¹ Arthur James Ballantyne, M.B., Ch.B., Scotland. Thesis, "Affections of the Eye due to injury by blunt objects."
- 1901 ¹ George Coats, M.B., Ch.B., Scotland. Thesis, "Unilateral Haemorrhagic Retinitis and Haemorrhagic Glaucoma."
- 1901 ¹ John Henderson, M.B., Ch.B., Scotland. Thesis, "Observations on the Maternal Blood at term and during the puerperium."
- 1901 ¹ James Donald Rae Monro, M.A., M.B., C.M., Scotland. Thesis, "A study of Appendicitis in general practice, with an analysis of thirty-six cases."
- 1902 ²³ Alexander Robert Ferguson, M.B., C.M., England. Thesis, "The Leucocytosis of Variola, with a study of the haematopietic organs in the disease, and also of the lesions of the skin."
- 1902 ¹ Andrew Wilson, M.B., C.M., Scotland. Thesis, "A clinical study of the relation of Syphilis to Diseases of the Eye."
- 1902 ¹ Andrew Colville Wilson, B.Sc., M.B., C.M., Scotland. Thesis, "The Medullated Fibres of the Cerebral Cortex."
- 1903 ²³ George Lamb, M.B., C.M., Scotland. Thesis, "On the action of the venoms of the Cobra (*Naja Tripudiana*) and of the Daboia (*Daboia Russellii*) on the red blood corpuscles and on the blood plasma."
- 1903 ²³ William Glen Liston, M.B., Ch.B., India. Thesis, "Aetiology of Malaria."
- 1903 ¹ Charles Campbell Cuthbert, M.A., M.B., Ch.B., Scotland. Thesis, "A clinical study of Renal cases."
- 1903 ¹ James M'Haffie, M.B., Ch.B., Scotland. Thesis, "On the complications occurring in 600 consecutive cases of Scarletina."
- 1903 ¹ Jean Effie Prowse, M.B., Ch.B., England. Thesis, "The relation of Vesicular Mole to Chorion Carcinoma."
- 1903 ²³ John Hammond Teacher, M.A., M.B., C.M., Scotland. Thesis, "On Chorion-epithelioma and the occurrence of Chorionepitheliomatous and Hydatidiform Mole-like structures in Teratomata: a Pathological and Clinical study."
- 1903 ¹ George Morris Crawford, M.B., Ch.B., Scotland. Thesis, "Nitrogen Excretion in Diphtheria."
- 1903 ¹ Reginald Nairn Dunlop, M.B., Ch.B., Scotland. Thesis, "An Analysis of fifty cases of Eclampsia."
- 1903 ¹ Arthur Robin, M.B., Ch.B., Scotland. Thesis, "A contribution to the Haematology of Puerperal Fever, with some observations on the influence of the intravenous injection of Antistreptococcic Serum."
- 1903 ¹ Donald Sage Sutherland, M.B., Ch.B., Scotland. Thesis, "An investigation into the specific Etiology of Scarlet Fever."
- 1903 ¹ Malcolm Watson, M.B., C.M., Scotland. Thesis, "The effect of Drainage and other Measures on the Malaria of Klang, Federated Malay States."
- 1904 ¹ Adam Brown Kelly, M.B., C.M., D.Sc., Scotland. Thesis, "Contributions to the Pathology and Diagnosis of certain Affections of the Antrum of Highmore."
- 1904 ¹ Daniel Macpherson Taylor, M.A., M.B., C.M., Scotland. Thesis, "Symphathetic Ophthalmitis after Preventive Enucleation."

¹ Commended for Thesis.² With Honours.³ Gained a Bellabouston Gold Medal.

BACHELORS OF MEDICINE (M.B.). HONOURS.

1866	Robert W. Forrest,	Scotland.	1887	William MacLennan,	Scotland.
"	Henry T. Pringle,	"	1891	Hugh Galt,	"
1867	Ebenezer Duncan,	"	"	Robert Currie Robertson, M.A.,	"
"	Joseph Coats,	"	1892	John Morton,	"
"	James Finlayson,	"	"	James Carslaw, M.A.,	"
1868	Thomas Barr,	"	1894	Alexander MacLennan,	"
"	William MacLachlan,	"	"	Wm. Stewart Cook, B.Sc.,	"
"	Angus Macmillan,	"	"	Jas. C. Robertson, M.A., B.Sc.,	"
1869	James Coats,	"	"	Jas. Murray Young,	"
1871	David Wilkie,	"	"	John Francis Robt. Gairdner,	"
"	John Aikman,	"	"	John Wainman Findlay,	"
1872	John D. Macdonald,	"	1895	Joshua Ferguson, M.A.,	"
"	Samson Gemmell,	"	"	Henry Alex. Pattullo,	"
1876	Geo. S. Middleton, M.A.,	"	"	Ernest A. Walker, M.A.,	"
"	Richard B. Macpherson,	"	1896	John Knight,	"
1877	Johan B. Knobel,	Africa.	"	Madge Speirs Maclean,	"
"	Donald Macphail,	Scotland.	1897	John A. C. Macewen, B.Sc.,	"
"	John Carlyle Johnstone,	"	"	Thomas Hunter, M.A., B.Sc.,	"
"	Edward D. M. Mackellar,	"	1898	Wm. Kilpatrick Hutton, M.A.,	"
1878	Alexander Fraser,	"	"	Robert Fullarton, M.A.,	"
"	James Morton,	"	"	William Webster,	"
"	William Partington,	"	1899	Alex. Laurie Watson, M.A.,	"
"	Lawrence A. Waddell,	"	1900	Charles Campbell Cuthbert, M.A.,	"
1879	William K. Peden,	"	"	James Dunlop Lickley,	England.
"	Ralph D. Stevenson,	Australia.	1901	Alex. Dey Thompson,	Scotland.
1880	Andw. A. Hogarth, M.A.,	Scotland.	"	William Macalister Brown,	"
"	J.M. Gregor-Robertson, M.A.,	"	1902	Andrew Miller Kerr,	"
"	John Lindsay Steven,	"	"	Joseph White, M.A., B.Sc.,	"
1881	John More Young, M.A.,	"	"	John Morison,	India.
1882	Robert Beith,	"	1903	Spencer Mort,	Scotland.
1883	John Innes Dunlop,	"	"	Alex. Matheson, M.A., B.Sc.,	"
1884	Charles O. Hawthorne,	England.	"	Wm. D. H. Stevenson, M.A.,	India.
1886	Alexander Bryce,	Scotland.	"	Carl H. Browning,	Scotland.
"	Wm. Snodgrass, M.A.,	U.S.A.	"	Peter L. Sutherland,	"
"	John H. Carslaw, M.A.,	Scotland.			

BRUNTON MEMORIAL PRIZE OF £10,

Awarded to the most distinguished Graduate in Medicine of the year.

1880.	John Lindsay Steven, M.B., C.M.	1894.	Alexander MacLennan, M.B., C.M.
1881.	John More Young, M.A., M.B., C.M.	1895.	Joshua Ferguson, M.A., M.B., C.M.
1882.	Robert Beith, M.B., C.M.	1896.	John Knight, M.B., C.M.
1883.	John Innes Dunlop, M.B., C.M.	1897.	John Allan Craigie Macewen,
1884.	Charles Oliver Hawthorne, M.B., C.M.		B.Sc., M.B., C.M.
1885.	Andrew Wilson, M.B., C.M.		Thomas Hunter, M.A., B.Sc.,
1886.	Alexander Bryce, M.B., C.M.		M.B., Ch.B.
1887.	William MacLennan, M.B., C.M.	1898.	William Kilpatrick Hutton, M.A.,
1888.	Landel Rose Oswald, M.B., C.M.		M.B., C.M.
1889.	William Robert Jack, B.Sc., M.B., C.M.	1899.	Alex. Laurie Watson, M.A., M.B.,
1890.	George Lamb, M.B., C.M.		Ch.B.
1891.	Hugh Galt, M.B., C.M.	1900.	Charles C. Cuthbert, M.A., M.B.,
1892.	John Morton, M.B., C.M.		Ch.B.
1893.	John Johnson Urwin, M.B., C.M.	1901.	Alex. Dey Thompson, M.B., Ch.B.
		1902.	Andrew Miller Kerr, M.B., Ch.B.
		1903.	Spencer Mort, M.B., Ch.B.

THOMAS LOGAN MEDAL AND PRIZE,

Awarded to the most distinguished Graduate in Arts of the year.

- | | |
|--------------------------------------|--------------------------------------|
| 1888. Ernest Findlay Scott, M.A. | 1896. George Donald Valentine, M.A. |
| 1889. Alfred Ernest Garvie, M.A. | 1897. Gavin Scott, M.A. |
| 1890. John Edgar M'Fadyen, M.A. | 1898. John Lyle Morison, M.A. |
| 1891. James Holm, M.A. | 1899. John Lochhead, M.A. |
| 1892. Daniel Lamont, M.A. | 1900. Mabel Atkinson, M.A. |
| 1893. Gilchrist Gibb Alexander, M.A. | 1901. Dougald Black M'Quistan, M.A. |
| 1894. Henry Noel Brailsford, M.A. | 1902. William Lindsay Thompson, M.A. |
| 1895. William King Gillies, M.A. | 1903. William Sutherland, M.A. |

XII.—DEGREE AND PRIZE LIST.

LIST OF DEGREES

CONFERRED IN THE VARIOUS FACULTIES AND OF PRIZES AND
CERTIFICATES OF HONOUR AWARDED IN THE SEVERAL
CLASSES OF THE UNIVERSITY DURING THE YEAR ENDING
1ST MAY, 1904.

DOCTORS OF DIVINITY (D.D.).

April, 1904.

- Rev. Walter William Coats, B.D., Minister of Brechin.
 Rev. George Thomas Jamieson, Minister of Portobello.
 Rev. William Malcolm Macgregor, M.A., Minister of St. Andrew's United
 Free Church, Edinburgh.
 Rev. Arthur John Maclean, Principal of Episcopal Theological College,
 Coates Hall, Edinburgh.
 Rev. Ambrose Shepherd, Minister of Elgin Place Congregational Church,
 Glasgow.
 Rev. Professor Hugh Williams, M.A., Theological College, Bala.

DOCTORS OF LAWS (LL.D.).

April, 1904.

- The Hon. Joseph Hodges Choate, United States Ambassador, London.
 George Frederick Deacon, Civil Engineer, London.
 Sir Ludovic James Grant, Bart., Professor of Public Law in the University
 of Edinburgh.
 John Honeyman, R.S.A., Architect, Glasgow.
 Dmitri Ivanovitch Mendeléeff, the celebrated Russian Chemist.

- John Henry Muirhead, M.A., Professor of Mental and Moral Philosophy in the University of Birmingham.
 William Stirling, B.Sc., M.D., Brackenbury Professor of Physiology and Histology, Owens College, University of Manchester.
 Sir William Taylor, K.C.B., M.D., Director-General, Army Medical Service, War Office, London.

BACHELORS OF DIVINITY (B.D.).

November, 1904.

- John Gilmour, M.A. William Steel Rutherford, M.A.
 John Edgar Sugden Oddy, M.A.

April, 1904.

- George Carstairs, M.A. William Neve Monteith, B.A.
 Augustine Wentworth Scudamore George Muir, M.A.
 Forbes, M.A. Walter Mundell Paterson, M.A.
 Arthur Scott Hutchison, M.A. James Watson Runciman, M.A.
 Thomas Low, M.A. Peter George Smith, M.A.
 James George MacDonald, M.A. William Sinclair Sutherland, M.A.
 Kenneth Olaus Macleod, M.A.

BACHELORS OF LAWS (LL.B.).

November, 1903.

- Robert William Bell, M.A., B.L. Maurice John King, M.A.
 Alexander Borthwick Mackay, M.A.

April, 1904.

- Archibald Campbell Black, M.A. David Brown Mungo, M.A.
 John Chalmers Brechin, M.A. Thomas Graham Robertson, M.A.¹
 James Walter Buchan, M.A. William Roy, M.A.
 William Francis Cameron, M.A. Robert Scott, M.A.
 Hamilton Crawford, M.A. George John Spreull, M.A.
 John Rodger Haldane, M.A. Peter Taylor Young, M.A.
 Edward Rosslyn Mitchell, M.A.

BACHELORS OF LAW (B.L.).

November, 1903.

- John Stuart Chalmers. William Hutson, M.A.
 Walter Thomas Patrick Spens, M.A.

April, 1904.

- Campbell Cochran. Alexander Malcolm Scott.
 Cosmo Augustus Ralston.¹ Kyle Thomson, M.A.

DOCTORS OF MEDICINE (M.D.).

July, 1903.

I. WITH HONOURS.

- John Hammond Teacher, M.A., M.B., C.M., Scotland. Thesis, "On Chorionepithelioma and the Occurrence of Chorionepitheliomatous and Hydatidiform Mole-like Structures in Teratomata: a Pathological and Clinical Study."

¹With Distinction.

II. ORDINARY DEGREE.

David Stone, M.B., C.M., Scotland. Thesis, "Infantile Atrophy, with Statistics."

Adam Crawford White, M.B., C.M., Scotland. Thesis, "*Blatta Orientalis*: Secondary Reproductive Organs: Period of Development, etc."

November, 1903.

I. WITH COMMENDATION.

George Morris Crawford, M.B., Ch.B., Scotland. Thesis, "Nitrogen Excretion in Diphtheria."

Reginald Nairn Dunlop, M.B., Ch.B., Scotland. Thesis, "An Analysis of Fifty Cases of Eclampsia."

Arthur Robin, M.B., Ch.B., Scotland. Thesis, "A Contribution to the Haematology of Puerperal Fever, with some Observations on the Influence of the Intravenous Injection of Antistreptococcic Serum."

Donald Sage Sutherland, M.B., Ch.B., Scotland. Thesis, "An Investigation into the Specific Etiology of Scarlet Fever."

Malcolm Watson, M.B., C.M., Scotland. Thesis, "The effect of Drainage and other Measures on the Malaria of Klang, Federated Malay States."

II. ORDINARY DEGREE.

John Cullen, M.B., Ch.B., Scotland. Thesis, "Post-Scarlatinal Measles,"

Hugh Campbell Ferguson, M.B., Ch.B., Scotland. Thesis, "On the Urinary Elimination of Chlorine in Acute Pulmonary Affections—Acute Lobar Pneumonia, Pleurisy with Effusion, and Acute Phthisis."

Archibald Gow, M.B., Ch.B., Scotland. Thesis, "A Monograph on Locomotor Ataxy, with special reference to the Disturbances of Sensation."

Archibald Wilson Harrington, M.B., Ch.B., Scotland. Thesis, "Bronchopneumonia in Pertussis and Morbilli; a Study of 51 Cases."

Andrew Mair, M.B., Ch.B., Scotland. Thesis, "An Analysis of 477 Cases of Scarlet Fever."

Joseph Goodwin Tomkinson, M.B., Ch.B., England. Thesis, "Leucocytosis in Scarlatina, with a Note on Tracheotomy in this Fever."

James Cameron Turnbull, M.B., Ch.B., Scotland. Thesis, "Infantile Hemiplegia, with Illustrative Cases."

April, 1904.

I. WITH COMMENDATION.

Adam Brown Kelly, M.B., C.M., D.Sc., Scotland. Thesis, "Contributions to the Pathology and Diagnosis of Certain Affections of the Antrum of Highmore."

Daniel Macpherson Taylor, M.A., M.B., C.M., Scotland. Thesis, "Sympathetic Ophthalmitis after Preventive Enucleation."

II. ORDINARY DEGREE.

Thomas Douglas Brown, M.B., C.M., Scotland. Thesis, "A Clinical Study of Mediastinal Tumours."

BACHELORS OF MEDICINE AND MASTERS IN SURGERY (M.B., C.M.).

July, 1903.

Charles Lorn Stewart Gibson, Scotland.

November, 1903.

John Alexander Paton, Scotland. William Shedden,

Scotland.

BACHELORS OF MEDICINE AND BACHELORS OF SURGERY

(M.B., CH.B.).

July, 1903.

I. HONOURS.

¹ Spencer Mort,	Scotland.	William David Henderson	} India.
Alexander Matheson,	} "	Stevenson, M.A.,	
M.A., B.Sc.,		Carl Hamilton Browning.	
Peter Lindsay Sutherland,	Scotland.		Scotland.

II. COMMENDATION.

Malcolm Hutton, M.A.,	} Scotland.	James Carmichael	} Scotland.
B.Sc.,		Pairman, M.A.,	
William Garrow Shand,	} "	John Wilson Sutherland,	} "
Gertrude Dorman		Martha Hunter Scott,	
Bostock, B.Sc.,	} England.	James Eadie,	} Australia.
Arthur William Suther-			
land, M.A.,	Scotland.		Scotland.

III. ORDINARY DEGREES.

Robert Adam,	Scotland.	Alexander Dingwall	} Scotland.
John William Arthur,	"	Kennedy,	
Jeanie Auld,	"	Thomas Walker Love,	"
Helen Stephen	} New Zealand.	Thomas Lovett,	Ireland.
Baird, B.A.,		Donald Macaulay,	Scotland.
Thomas Ballantyne,	Scotland.	James Duff M'Culloch,	"
Thomas Bennett, M.A.,	"	John Finlay Macdonald,	"
Archibald Grainger Bisset,	"	Jessie Seath MacEwen,	"
Alexander Blair,	"	Norman Alexander Macleod,	"
Robert George Bradford,	"	James Anthony Macvea,	"
John Brown,	"	Anna Pollock Martin,	India.
Robert Bruce,	"	Eliza Jane Miller,	Scotland.
Robert Bryson,	"	Isabella Deane Mitchell,	Ireland.
Mary Charlotte Cameron,	"	John Baird Morton,	Scotland.
Jane Campbell,	"	Gavin Muir,	"
Daniel Lyall Carmichael,	"	George Richmond,	"
Alexander Adam Carruthers,	"	Daniel Falconer Riddell, M.A.,	"
Walter Bartlett Chapman,	England.	Mary Ann Thompson	} Wales.
Alexander Erskine Clark,	Scotland.	Ritchings,	
Andrew Connal,	"	Peter Hamilton Robertson,	Scotland.
Samuel Campbell Cowan,	"	Elizabeth Helen Smith,	"
John Cross,	"	John Black Stevenson,	India.
David Dickie,	"	William Stewart,	Scotland.
Jessie Galloway Duncan,	"	John Allan Thom,	"
David Garfield Dykes,	"	John Restell Thomas,	Australia.
Conison Charles Finlator,	"	Joseph Walker, M.A.,	Scotland.
James Forsyth,	"	William Norman West	} England.
Kate Fraser, B.Sc.,	"	Watson,	
Jane Reid Faulds Gilmour,	"	Robert Tait Watts, M.A.,	Scotland.
James Glover,	"	John Forrest Weston,	"
John Hanson, M.A.,	"	James Wilson,	"
William Harvey,	"	John Young (Glasgow),	"
John Muir Kelly,	"	Watson Young,	"

¹ Mr. Mort gains the Brunton Memorial Prize of Ten Pounds, awarded to the most distinguished Graduate in Medicine of the year.

November, 1903.

William Thomas Bolton,	England.	James Maclean,	Scotland.
James Craig,	Scotland.	Alexander Stewart M'Millan,	"
Hugh Collin Davies,	Wales.	Margaret Hossack Smart,	"
William Dow,	Scotland.	Norman Burgess Stewart,	"
Leslie Charles Brough-	England.	Edith Christine Wallace,	"
ton Head,		George Henry Wildish,	"
Alice Wesley Maclean,	Scotland.		

April, 1904.

Agnes Wallace Cameron,	Scotland.	Peter Millar,	Scotland.
John Ritchie Gilmour,	"	Griffith John Williams,	Wales.
Alexander Jamieson,	"	Eldred Wright,	Scotland.

DOCTORS OF SCIENCE (D.Sc.).

November, 1903.

James Knight, M.A., B.Sc. Thesis, "Infant Foods and Infant Feeding."

April, 1904.

Thomas Albert Briggs Carver, B.Sc. Thesis, "The application of Electricity to the Weaving of Figured Fabrics."
 John Marshall Cowan, B.A., M.D. Thesis, "Papers on the Myocardium."
 Robert Franklin Muirhead, M.A., B.Sc. Thesis, "(a) Some Methods applicable to Identities and Inequalities of Symmetric Algebraic Functions of n Letters, (b) The Axial Dioptric System."

DOCTOR OF PHILOSOPHY (D.PHIL.).

April, 1904.

Robert Alexander Duff, M.A. Thesis, a published volume, "Spinoza's Political and Ethical Philosophy."

BACHELORS OF SCIENCE (B.Sc.).

July, 1903.

In Engineering.
 James Gray.¹

November, 1903.

In Biological Science.

Robert Cumming, M.A., B.D.

In Pure Science.

Thomas Barbour.	Thomas M'Crick, M.A. ³
Robert Alexander Houstoun, M.A. ²	Dougald Black M'Quistan, M.A. ²
John Henderson Stewart, M.A. ⁴	

In Engineering.

Robert Blair.	John Alexander M'Crindle.
Robert Crichton.	John Ernest MacDougall.
Richard Frederick Hartley. ⁵	John Alexander Gowans Tainsh.
William Carrick Howat.	Henry Owen Weller.
James Howden.	

¹ With Special Distinction in (a) Natural Philosophy, (b) Physical Laboratory, (c) Electricity, Pure and Applied.

² With Special Distinction in (a) Mathematics, (b) Natural Philosophy, (c) Astronomy.

³ With Special Distinction in Zoology.

⁴ With Special Distinction in Astronomy.

⁵ With Special Distinction in Mechanical Laboratory.

April, 1904.

In Pure Science.

John Anderson, M.A.	Louis Niel Gow, M.A.
John Campbell.	John Isdale Greig, M.A.
Samuel Norris Forrest, M.A. ¹	James Hunter, M.A.
Sampachi Fukuzawa.	Harry Stewart Hutchison.

In Engineering.

Bernard Inman Franklin Adams. ²	Bernard Parker Haigh. ⁵
Robert Douglas Archibald. ³	Harry Fairlie Hodge.
Hubert Noel Beilby.	Duncan John Kerr. ⁶
Robert Bilsland. ²	Carlo La Torre.
Ejnar Bondegaard. ²	John Alexander MacConnell.
John Brown.	John Maxwell Scott Maxwell.
James Richardson Coats.	Michael Spartali.
Henry James Morrison Cousens. ⁴	Robert Ure. ¹
George Mather Craig.	John Whitehead.

In Agriculture.

John Struthers, M.A.

CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

November, 1903.

Robert Blair.	John Ernest MacDougall.
Richard Frederick Hartley.	John Alexander Gowans Tainsh.

April, 1904.

James Richardson Coats.	John Alexander M'Crindle, B.Sc.
Henry James Morrison Cousens.	Fryer Thomas Acheson Smyth, B.Sc.
Harry Fairlie Hodge.	Michael Spartali.
Carlo La Torre.	Robert Ure.

MASTERS OF ARTS (M.A.).

October, 1903.

WITH HONOURS.

With First-Class Honours in Mathematics and Natural Philosophy, and Second-Class Honours in History.

William Sutherland.

November, 1903.

I. WITH HONOURS.

With First-Class Honours in Mental Philosophy.

Robert Robertson Rusk.	John Waugh Scott.
------------------------	-------------------

¹ With Special Distinction in (a) Mathematics, (b) Natural Philosophy.

² With Special Distinction in Physical Laboratory.

³ With Special Distinction in (a) Natural Philosophy, (b) Engineering and Drawing.

⁴ With Special Distinction in (a) Mathematics, (b) Natural Philosophy, (c) Physical Laboratory, (d) Engineering and Drawing, (e) Engineering, Class III.

⁵ With Special Distinction in (a) Natural Philosophy, (b) Physical Laboratory,

(c) Engineering and Drawing, (d) Engineering Laboratory, Electrical.

⁶ With Special Distinction in (a) Mathematics, (b) Natural Philosophy, (c) Engineering and Drawing, (d) Electricity, Pure and Applied.

With First-Class Honours in Mathematics and Natural Philosophy.

Samuel Norris Forrest.
Robert Hamilton (Cleland).

Robert Jack.
William Miller.

With First-Class Honours in Modern Languages.

Mary Campbell Biggar.

Janet Green.

Alice Margaret Blyth Guthrie.

With Second-Class Honours in Classics.

Robert William Barr.
Peter Marshall.

Alexander Moffat.
James Hall Stevenson.

With Second-Class Honours in Mathematics and Natural Philosophy.

Robert M'Kenzie Morison.

With Second-Class Honours in Modern Languages.

Mary Barrowman.

With Third-Class Honours in Classics.

Robert Cunningham.

Harry Joseph Phillips.

II. ORDINARY DEGREE.

John Bain.
Margaret Barbour.
John Dunlop Brown.
William Brown (Paisley).
William Weir Clark.
Thomas Thompson Cullen.
Margaret Dallas.
James Dick.
Herbert Dunn.
Alexander Fyfe.
James Nash Gourlay.
Jessie Elizabeth Gollan Grant.
Walter Henderson.
William Howat.
James William Jordan.
William Kerr (Beith).
Marjory Ogilvy Ketchen.
William Lang.

Gavin Lawson.
Peter Cunningham M'Arthur.
Sydney Melrose MacEwen.
Thomas M'Ewen.
Alexander Ramsay Mackenzie.
Martin Campbell M'Laren.
Margaret M'Neill.
James White Millen.
Alfred Patman Muirhead.
George Alexander Pollock.
Archibald Shaw.
Donald Smith.
Thomas Dundas Towers.
Cecilia Jane Waddington.
Alexander Marshall Watters.
Helen Wilkie.
William Wordie.

April, 1904.

I. WITH HONOURS.

With First-Class Honours in Classics.

James M'Donald Devine.

William Manson.

Charles Gilbert Nelson.

With First-Class Honours in Modern Languages.

Annie Jane Arnott.

Elizabeth Wilkie Scott.

With Second-Class Honours in Classics.

William James Auld.

Adam Patrick.

Arthur Shepherd.

With Second-Class Honours in Modern Languages.

Arthur Craig.

With Third-Class Honours in Mathematics and Natural Philosophy.

James Provan Mackay.

II. ORDINARY DEGREE.

Alexander Grant Kilpatrick Allison.	William M'Adam.
William Bennett.	James Fergusson M'Creath.
Matthew Biggar.	Mary Malcolm M'Culloch.
Andrew Fulton Calderwood.	John Macfarlane.
John Cameron (Tiree).	Margaret Conchie Raphael M'Farlane.
Catherine Campbell (Taynuilt).	Robina Douglas M'Gilchrist.
Margaret Hunter Carswell.	Mary Watson M'Gill.
George Frank Clark.	Arthur Esdaile Macgregor.
Jennie Cumming Climie.	Margaret Elizabeth M'Kerrow.
David Conn.	Alexander Cockburn MacLean.
Robert Conn.	David Williams Main.
Charles Cullen.	Mary Merry.
Jennie Dick.	James Miller.
Arthur Drummond Downes.	James Moore.
James Dunlop.	Charles Robinson Murray.
William Erskine Findlay.	Jeanie Gemmill Neil.
George Fletcher.	George Paterson.
Henry Mungles Fletcher.	Agnes Jane Paul.
William Maxwell Fulton.	Gordon Quig.
James Albert Gilchrist.	John Reid (Govanhill).
Robert Grant.	Jenny Torrance Robertson.
Robert Monteath Grant.	Bessie Russell.
Samuel Greer.	James Gilchrist Russell.
Margaret Mary Hardy.	William Scott (Stonehouse).
William Alexander Hepburn.	Isabella Robson Smith.
Jeanie Allan Telfer Hewitt.	Thomas Stewart (Glasgow).
Ella Smith Hill.	John Sturgeon.
William Howard.	John Arbuckle Swan.
Walter Hubbard.	Archibald Alexander Tomlinson.
Samuel Robertson Jamieson.	Donald Bannatyne Watson.
Mary M'Dougall Leckie Johnston.	James Westwater.
Henry Lambie.	William Dymock White.
John Lambie.	Williamina Chalmers Whitecross.
Hilda Oliphant Lindsay.	John Murray Woodburn.

DIPLOMA IN EDUCATION.

*November, 1903.**Diploma with Distinction in English, including History.*

Peter M'Dougall, M.A.

*April, 1904.**Diploma with Distinction in French and German.*

Mary Campbell Biggar, M.A.

Diploma with Distinction in Classics.

William Robert Merry, M.A.

DEPARTMENTAL CERTIFICATES.

I. FOR DEGREE OF B.D.

FIRST DEPARTMENT—*October, 1903.*

Carstairs, George, M.A.	Muir, George, M.A.
Forbes, Augustine Wentworth Scudamore, M.A.	Otty, John Edgar Sugden, M.A.
Gilmour, John, M.A.	Paterson, Walter Mundell, M.A.
Low, Thomas, M.A.	Roberts, Eric James, M.A.
MacDonald, James George, M.A.	Rutherford, William Steel, M.A.
Monteith, William Neve, B.A.	Smith, Peter George, M.A.
	Watt, Hugh, M.A.

FIRST DEPARTMENT—*April, 1904.*

Hutchison, Arthur Scott, M.A.	Sutherland, William Sinclair, M.A.
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SECOND DEPARTMENT—*April, 1904.*

Carstairs, George, M.A.	Macleod, Kenneth Olaus, M.A.
Clark, William Weir, M.A.	Monteith, William Neve, B.A.
Dunlop, Alexander Slater, M.A.	Muir, George, M.A.
Forbes, Augustine Wentworth Scudamore, M.A.	Paterson, Walter Mundell, M.A.
Hutchison, Arthur Scott, M.A.	Runciman, James Watson, M.A.
Low, Thomas, M.A.	Runciman, William, M.A.
MacDonald, James George, M.A.	Smith, Peter George, M.A.
	Sutherland, William Sinclair, M.A.

II. FOR DEGREES IN LAW.

OLD REGULATIONS.

FOR DEGREE OF B.L.

IN CIVIL LAW.

October, 1903—Scott, Alexander Malcolm.

IN SCOTS LAW.

October, 1903—Scott, Alexander Malcolm.

IN CONVEYANCING.

April, 1904—Scott, Alexander Malcolm.

IN CONSTITUTIONAL LAW AND HISTORY.

April, 1904—Scott, Alexander Malcolm.

NEW REGULATIONS.

I. FOR DEGREE OF LL.B.

IN JURISPRUDENCE.

October, 1903.

Armstrong, Thomas, M.A.	Shearer, Robert Walter Rogerson, M.A.
Mackay, Alexander Borthwick, M.A.	
Mungo, David Brown, M.A.	

April, 1904.

Brechin, John Chalmers, M.A.	Ness, Robert Ralston, M.A.
Cameron, William Ernest, M.A.	Robertson, Thomas Graham, M.A.
Crawford, Hamilton, M.A.	Roy, William, M.A.
Findlay, John Alexander, M.A.	Scott, Robert, M.A.
Haldane, John Rodger, M.A.	Spreull, George John, M.A.
Main, Archibald Naismith, M.A.	Waddell, James, M.A.
Mair, John, M.A.	

IN PUBLIC INTERNATIONAL LAW.

October, 1903.

Bell, Robert William, M.A.	Macqueen, Robert Haldane, B.A.
Findlay, John Alexander, M.A.	Spreull, George John, M.A.
MacMillan, Peter, M.A.	

April, 1904.

Brechin, John Chalmers, M.A.	Mair, John, M.A.
Buchan, James Walter, M.A.	Murray, Anthony Stoddard, M.A.
Crawford, Hamilton, M.A.	Riddell, Thomas Park, M.A.
Haldane, John Rodger, M.A.	Roy, William, M.A.
Hutchison, David M'Cowan, M.A.	Waddell, James, M.A.
Main, Archibald Naismith, M.A.	

IN CIVIL LAW.

October, 1903.

Riddell, Thomas Park, M.A.	Shearer, Robert Walter Rogerson, M.A.
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April, 1904.

Black, Archibald Campbell, M.A.	Mackenzie, James Lorimer, M.A.
Wilson, Harold, M.A.	

IN LAW OF SCOTLAND.

October, 1903.

Armstrong, Thomas, M.A.	Hutchison, David M'Cowan, M.A.
Haldane, John Rodger, M.A.	Main, Archibald Naismith, M.A.

April, 1904.

Crawford, Archibald, M.A.	Mungo, David Brown, M.A.
Findlay, John Alexander, M.A.	Ness, Robert Ralston, M.A.
Mackenzie, James Lorimer, M.A.	Riddell, Thomas Park, M.A.
M'Robert, John Patrick, M.A.	Wilson, William Scott Branks, M.A.
Muir, Morton Mungo, M.A.	

IN CONSTITUTIONAL LAW AND HISTORY.

October, 1903.

Bell, Robert William, M.A.	Macqueen, Robert Haldane, B.A.
Brechin, John Chalmers, M.A.	Main, Archibald Naismith, M.A.
Cameron, William Ernest, M.A.	Mair, John, M.A.
Mackay, Alexander Borthwick, M.A.	Robertson, Thomas Graham, M.A.
MacMillan, Peter, M.A.	

April, 1904.

Black, Archibald Campbell, M.A.	Muir, Morton Mungo, M.A.
Cameron, William Francis, M.A.	Waddell, James, M.A.
Hutchison, David M'Cowan, M.A.	Wilson, Harold, M.A.
M'Robert, John Patrick, M.A.	Wilson, William Scott Branks, M.A.
Mitchell, Edward Rosslyn, M.A.	

IN CONVEYANCING.

October, 1903.

King, Maurice John, M.A. MacMillan, Peter, M.A.
Spens, Walter Thomas Patrick, M.A.

April, 1904.

Brechin, John Chalmers, M.A. Roy, William, M.A.
Buchan, James Walter, M.A. Scott, Robert, M.A.
Haldane, John Rodger, M.A. Young, Peter Taylor, M.A.
Robertson, Thomas Graham, M.A.

IN POLITICAL ECONOMY.

October, 1903.

Lowe, Theodore David, M.A. Riddell, Thomas Park, M.A.

IN MERCANTILE LAW.

April, 1904—Mungo, David Brown, M.A.

IN INTERNATIONAL PRIVATE LAW.

October, 1903.

Brechin, John Chalmers, M.A. Lowe, Theodore David, M.A.
Cameron, William Ernest, M.A. Mackay, Alexander Borthwick, M.A.
Findlay, John Alexander, M.A. Mair, John, M.A.
Haldane, John Rodger, M.A. Robertson, Thomas Graham, M.A.
Hutchison, David M'Cowan, M.A. Spreull, George John, M.A.

April, 1904.

Buchan, James Walter, M.A. Murray, Anthony Stoddard, M.A.
Mungo, David Brown, M.A. Roy, William, M.A.

IN FORENSIC MEDICINE.

October, 1903.

Armstrong, Thomas, M.A. Mungo, David Brown, M.A.
Haldane, John Rodger, M.A. Spens, Walter Thomas Patrick, M.A.

April, 1904.

Cameron, William Ernest, M.A. Hutchison, David M'Cowan, M.A.
Crawford, Archibald, M.A. Ness, Robert Ralston, M.A.

II. FOR DEGREE OF B.L.

IN LOGIC.

April, 1904.

Brand, David Ernest. Hamilton, James.
Brown, John (Langside). Lyons, James Robert.

IN MORAL PHILOSOPHY.

April, 1904.

Bell, William Burt Marshall. Pirie, John.
Boyd, Alexander Bisland.

IN LATIN.

*October, 1903—Rankin, James Sabiston.**April, 1904.*

Brand, David Ernest. Stevenson, James.

IN GREEK.

October, 1903—M'Cracken, Maurice James.

IN MATHEMATICS.

October, 1903—Hamilton, James.

April, 1904—Pirie, John.

IN HISTORY.

April, 1904—Boyd, Alexander Bisland.

IN PUBLIC INTERNATIONAL LAW.

October, 1903.

Mitchell, James Alfred, M.A. Wilson, Alexander Robertson, M.A.

April, 1904—Kerr, James.

IN CIVIL LAW.

October, 1903—Murdoch, James Alexander Douglas, M.A.

April, 1904.

Foulis, James Bell. Thompson, William.
Foulis, William Adamson.

IN LAW OF SCOTLAND.

October, 1903—Mackintosh, James Semple.

April, 1904.

Anderson, Edward David. Murdoch, James Alex. Douglas, M.A.
Kerr, James. Rankin, James Sabiston.
M'Robert, John Patrick, M.A. Thompson, William.

IN CONSTITUTIONAL LAW AND HISTORY.

April, 1904—M'Robert, John Patrick, M.A.

IN CONVEYANCING.

October, 1903.

Spens, Walter Thomas Patrick, M.A. Thomson, Kyle, M.A.

April, 1904.

Cochran, Campbell. Ralston, Cosmo Augustus.

IN MERCANTILE LAW.

April, 1904—Thomson, Kyle, M.A.

IN INTERNATIONAL PRIVATE LAW.

October, 1903.

Chalmers, John Stuart. Cochran, Campbell.

IN FORENSIC MEDICINE.

October, 1903.

Spens, Walter Thomas Patrick, M.A. Thompson, William.

April, 1904.

Murdoch, James Alexander Taylor, M.A.

III. FOR DEGREES OF M.B., Ch.B.

FIRST PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (B., Botany; Z., Zoology; P., Physics; C., Chemistry):

October, 1903.

- | | |
|---|--|
| Adamson, Wallace Wright (Z., C.). | Hislop, William Alexander (Z.). |
| Anderson, Alexander (B., Z., P., C.). | Hogg, Archibald (B., Z.). |
| Anderson, David (B., P.). | Hutchison, Benjamin (B., P.). |
| Anderson, James Montgomery (B.). | Hutton, Andrew James (B., P.). |
| Atkinson, John (C.). | Kelly, Margaret Hope Douglas (B., Z.). |
| Binning, Robert Inglis (Z., C.). | Kennedy, Alexander Mills (B., P.). |
| Bow, Robert Rankin (B., P.). | Kerr, Charles Lawson (B., Z., P., C.). |
| Boyd, John Lindsay (B., P.). | Lauder, Robert (P.). |
| Buchanan, Murdo (B., C.). | Macalpine, Alice Hilda (B., Z.). |
| Cairncross, James (Z., C.). | M'Ardle, Daniel Conway (P.). |
| Cairns, James (B., P.). | M'Arthur, Peter Cunningham (Z.). |
| Cammock, William Rome (B., P.). | Macaulay, Ernest Bowman (B.). |
| Campbell, Thomas Hay (B., P.). | M'Corrie, Annie (Z.). |
| Carrick, James (B., P.). | Macdonald, Alexander Macphail (B., P., C.). |
| Cluckie, Alexander Beck (Z., C.). | Macdonald, Alexander Tulloh Inglis (B., P.). |
| Coats, John Humphrey James Victor (Z., P., C.). | M'Donald, James (C.). |
| Cook, James (B., P.). | MacInnes, Neil, M.A. (B., Z., P.). |
| Couper, Alexander Johnston (Z.). | Mackie, William Campbell (B., P.). |
| Craig, James Robert (B., P., C.). | M'Lachlan, David Allison (Z., C.). |
| Crichlow, Charles Adolphus (B., P.). | MacLachlan, Donald Cameron (B., Z., P., C.). |
| Davie, Neilson (Z., C.). | M'Lelland, William Edward (B., Z., P.). |
| Dick, Alexander (C.). | M'Leod, James Walter (B. P.). |
| Doctor, John Alexander (C.). | M'Millan, James M'Millan (B.). |
| Dunbar, James (C.). | M'Naughtan, Donald Irvine (Z.). |
| Duncan, Donald (B., P.). | M'Neill, Arthur Norman Roy (B., P.). |
| Dunstone, Leonard John (B., P.). | MacRae, Murdo Mackenzie (Z., C.). |
| Eadie, Alexander Wylie (Z., C.). | M'Vittie, John (B., Z., P., C.). |
| Elliott, William Marley (B., P.). | Maguire, Andrew (B., C.). |
| Fairley, Archibald (B., P., C.). | Manson, David (B., P.). |
| Fleming, Thomas Loudon (Z.). | Martin, James Hogg (B., P.). |
| Forrest, Margaret Gardner (Z.). | Mathieson, David Rogerson (Z., P.). |
| Forsyth, Thomas (Z., P., C.). | Matthews, Horatio (Z.). |
| Forsyth, William Leonard (B., P.). | Melville, William Spence (Z., P., C.). |
| Fotheringham, John (B., C.). | Miller, John Wilson (C.). |
| Fraser, George Muir (Z., C.). | Miller, Thomas (B., C.). |
| Galbraith, Samuel Nichol (B., P.). | Mitchell, James Robertson (Z., C.). |
| Gale, Berkeley (B., P.). | Moir, Hugh Walker (B.). |
| Gossman, Hugh M'Vicar (Z.). | Morrison, Flora (B., Z.). |
| Govan, Robert (Z., C.). | Muir, Robert Charles (B.). |
| Granger, Henry Maxwell (B., Z. C.). | Munro, Archibald Campbell (B., P.). |
| Grant, John Vincent (B., C.). | Murison, Arthur Alexander (C.). |
| Gray, James Dow (Z., C.). | Papiermeister, Isaac (B., P.). |
| Gray, Thomas Edmondstone (B., P.). | Picken, Ralph Montgomery Fullerton (B., P.). |
| Gunn, William Cooper (B., C.). | |
| Hamilton, David (Z., C.). | |
| Harkin, Thomas (Z., C.). | |
| Henderson, John Mitchell (B., P.). | |
| Hislop, James Hall (B.). | |

Purdie, David (B., P.).
 Rae, Richard (B., P.).
 Reid, Daniel M'Kinlay (C.).
 Renton, Donald (P., C.).
 Robertshaw, Benjamin (B., Z., P., C.).
 Robertson, Jane Isabel, M.A. (B., Z.).
 Robertson, Olive (B., Z.).
 Ross, Thomas David Coulthard (Z., C.).
 Rutherford, Margaret Elizabeth (B., Z.).
 Scott, Alexander (B., P.).
 Scott, George Waugh (B., Z.).
 Selby, Robert Ephraim (B.).
 Smith, James Anstruther (P., C.).
 Steedman, John (C.).
 Steele, Andrew William Milne (P.).
 Stenhouse, James Alexander (B., C.).
 Stevenson, Campbell Kay (B., P.).
 Stewart, Edward Ernest (Z.).

Stewart, John, M.A. (Z., C.).
 Storey, Lawrence (B., Z., P.).
 Storrie, Hugh Cochran (B.).
 Struthers, John Anderson (C.).
 Taylor, John Martin (B., P.).
 Taylor, Robert Scott (Z., C.).
 Thomson, David Alexander, M.A. (B., C.).
 Thomson, Hugh Johnstone (B., P.).
 Thomson, John Archibald (Z.).
 Turnbull, Martin (P.).
 Walker, John Morris (Z., C.).
 Watt, Thomas Charles Dalrymple (Z.).
 White, Hugh (C.).
 Williamson, Charles Percival (B.).
 Wilson, David M'Gruther (B., P.).
 Wilson, Frank Ritchie (B., P.).
 Yardumian, Garabed Yeghia (B., P.).
 Young, Hugh (B., P.).
 Young, John (B., P.).
 Young, Matthew (B., P.).

April, 1904.

Aitchison, Archibald (Z.).
 Aitken, John Andrew (P.).
 Allan, William (C.).
 Anderson, David (Z.).
 Anderson, William (B., P.).
 Archibald, Thomas (Z., C.).
 Auchencloss, James Currie (B., Z., P.).
 Barr, William (Z.).
 Beaton, Frank (B.).
 Bennett, Charles (Z., C.).
 Binning, Robert Inglis (B., P.).
 Blakely, John (Z.).
 Boyd, John Lindsay (Z., C.).
 Brown, William, M.A. (B.).
 Brownlie, William Barrie (Z., C.).
 Buchan, Martha Maclean (P., C.).
 Buchanan, David Young (Z.).
 Buchanan, Murdo (Z.).
 Calder, Hector Mackay (P.).
 Cameron, John (Z., P.).
 Carrick, James (Z., C.).
 Clark, Donald James (Z.).
 Coats, John Humphrey James Victor (B.).
 Cook, James (Partick) (Z., C.).
 Cruickshank, John (Z., C.).
 Darroch, Margaret Baird Sproul (B., Z.).
 Dawson, Walter (P., C.).
 Dick, James Cowie (B.).
 Duncan, William Hunter (B.).

Dunlop, James Kirkwood (P., C.).
 Dunsmuir, Allan (C.).
 Fleming, Thomas Loudon (B.).
 Foley, Mabel (P., C.).
 Forrest, Margaret Gardner (B., P., C.).
 Forsyth, Thomas (B.).
 Forsyth, William Leonard (Z., C.).
 Fotheringham, John (Z.).
 Gale, Berkeley (C.).
 Gibson, David (Z., C.).
 Gilmour, Walter (Z., C.).
 Gossman, Hugh MacVicar (B., P.).
 Gourlay, Alexander Thomas Arthur (B., P., C.).
 Graham, Edward O'Driscoll (P.).
 Gray, Thomas Edmondstone (Z., C.).
 Gunn, William Cooper (P.).
 Harbinson, Josiah Stranaghan (B., Z., P., C.).
 Henry, Stephen John (Z., C.).
 Hislop, James Hall (Z., P.).
 Hislop, William Alexander (P., C.).
 Hogg, Archibald (P., C.).
 Hutchison, Benjamin (Z., C.).
 Jones, Jeanie Walker (P., C.).
 Kennedy, Alexander Mills (Z., C.).
 Kirk, Thomas Joseph (Z.).
 Lang, John (Z.).
 Leitch, William (B., Z., P., C.).
 M'Ardle, Daniel Conway (B., C.).
 M'Arthur, Peter Cunningham, M.A. (B.).

- Macaulay, Frank Crombie (Z.).
 M'Callum, Hugh (Z., P.).
 M'Carlie, Robert (P.).
 M'Corie, Annie (B.).
 Macdonald, Alexander Macphail (Z.).
 MacDougall, Alexander Campbell (B., P.).
 Mackay, Joseph Bogue (B., P., C.).
 M'Kendrick, William (P., C.).
 Mackichan, Francis William (B., P.).
 Mackie, William Campbell (Z., C.).
 M'Lelland, William Edward (C.).
 M'Leod, James Walter (Z., C.).
 M'Millan, James M'Millan (Z., P., C.).
 MacMillan, John (B., P.).
 M'Naught, Peter Russell (Z., C.).
 M'Naughtan, Donald Irvine (B., P., C.).
 M'Pherson, Allan (Z., P.).
 Macvea, Janet Annie (Z.).
 Marriott, William Aubrey Layard (Z., C.).
 Marsh, Frank Needham (Z., C.).
 Matthews, Horatio (C.).
 Middlemiss, Kenneth Chisholm (Z., C.).
 Miller, Thomas (Z.).
 Morison, Robert M'Kenzie, M.A. (B., Z., C.).
 Morrison, Flora (P.).
 Morton, Hugh (C.).
 Muir, James (Z., P., C.).
 Muir, Robert Charles (P.).
 Muir, William Aikman (Z., P.).
 Munro, Archibald Campbell (Z., C.).
 Murison, Arthur Alexander (P.).
 Murison, Charles Sutherland M'Kay (B., C.).
 Naismith, Archibald (P., C.).
 Noble, Watson (Z., C.).
 Paterson, Albert Rutherford (Z., C.).
 Patrick, Adam (B., Z.).
 Picken, Ralph Montgomery Fullarton (Z.).
 Purdie, David (Z., C.).
 Purvis, Murray (Z., C.).
 Quigley, Edward (Z., P.).
 Rae, Richard (Z.).
 Rankin, Nicol M'Nicol (B., Z.).
 Rose, Jeannie Peden (B., Z.).
 Ross, Thomas David Coulthard (B., P.).
 Ross, Winifred Margaret (P.).
 Russell, Jessie Capie (P., C.).
 Scott, George Waugh (P., C.).
 Semple, Allan (B., P.).
 Sewell, William Alexander (Z., C.).
 Sim, James Brown (Z., P.).
 Stevenson, William (P., C.).
 Stewart, Jeanie Hinshaw (P., C.).
 Storey, Lawrence (C.).
 Storrie, Hugh Cochrane (Z., P., C.).
 Taylor, David (Z., C.).
 Telfer, Walter (P., C.).
 Thomson, John Archibald (B., P., C.).
 Thomson, John Shedden (Z., C.).
 Walker, Robert M'Nair (Z., C.).
 Waterhouse, William Samuel (P.).
 Watson, Tom Paul (B.).
 Watt, Thomas Charles Dalrymple (C.).
 Williamson, Charles Percival (Z., P.).
 Wilson, David M'Gruther (Z., C.).
 Wilson, Hugh Mundle (B., P., C.).
 Wilson, William Alexander (B., C.).

SECOND PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (A., Anatomy; P., Physiology; M., Materia Medica and Therapeutics):

October, 1903.

- Allan, George Allison (M.).
 Anderson, George Victor (P.).
 Baird, James Henderson, B.A. (M.).
 Barr, Hugh (M.).
 Beaton, George Duncan Morrison (A., P.).
 Bogle, George Thomson (A.).
 Burns, Charles (A.).
 Carmichael, Donald Livingston (A.).
 Carmichael, John Paterson (M.).
 Chislett, Charles Game Angus (P., M.).
 Clark, Donald (P.).
 Clark, Jeannie Thomson (M.).
 Copestake, Thomas Goodall (A.).
 Cowan, Andrew Donaldson (P.).
 Dempster, Harold Windley (A.).
 Dunn, John Shaw, M.A. (M.).
 Dyke, Eric John (M.).
 Dyke, Hamilton William (M.).
 Fitzgerald, Edward John (A., P.).
 Forrest, Thomas Henderson (P.).
 Gallagher, Mary Theresa (A.).
 Glaister, Joseph (A., P.).

Graham, Alexander, B.Sc. (M.).
 Greig, John Isdale, M.A. (A., P.).
 Grier, William (M.).
 Hammond, Charles Francis Dyer
 (A., P., M.).
 Hammond, John (M.).
 Harris, Saul Hyman (A.).
 Hart, James Duncan (A., P., M.).
 Hauxwell, Frank (P., M.).
 Hislop, Lawrence (P.).
 Hunter, Alexander (A.).
 Hunter, James (A., P., M.).
 Hutchison, Harry Stewart (A., P.).
 Jack, William Boyd (M.).
 Jones, Arnold Ernest (P.).
 Kelly, Percy James (M.).
 Kirkwood, William Love (M.).
 Leckie, Robert Wright (P.).
 Logan, George Hugh (A.).
 Lowe, Peter, M.A., B.Sc. (A.).
 Lucas, Katharine Robina Margaret
 (P.).
 M'Cosh, Thomas (M.).
 M'Ewan, Duncan (A., P., M.).
 Macewen, Hugh Allan (M.).
 Macfie, James Denniston (A.).
 Macintyre, John (A.).
 Macleod, William (M.).

MacNaught, Hugh (A., P., M.).
 MacNaughtan, Norman Smith (P.).
 Manson, William Hislop (A., P.).
 May, Robert (M.).
 Moffat, John (A.).
 Nisbet, John Dunn (A.).
 Oversby, Edith (P., M.).
 Rankin, Thomas Thomson (M.).
 Reid, John (A., P.).
 Rolland, William (M.).
 Russell, Alexander Cappie (M.).
 Stevenson, James (M.).
 Stewart, Arthur Anderson (P., M.).
 Stewart, Daniel (M.).
 Stewart, John Logan, M.A. (A., P.,
 M.).
 Strain, Thomas (M.).
 Stuart, William Alexander (M.).
 Sutherland, Joseph Roderick (A.,
 P., M.).
 Thom, Thomas (M.).
 Thomlinson, Christina Gibson (A.,
 P., M.).
 Walker, William Lind, M.A. (M.).
 Young, George (M.).
 Young, John, Mount Vernon (P.,
 M.).

April, 1904.

Anderson, George Victor (A., M.).
 Anderson, James Montgomery (M.).
 Andrew, Jeannie Montgomery (A.,
 P.).
 Arnott, Andrew Hamilton (P., M.).
 Bain, John, M.A. (A.).
 Barbour, Thomas, B.Sc. (A., P.).
 Burns, Charles (P.).
 Campbell, William Archibald (A.,
 P., M.).
 Carmichael, Donald Livingston (P.,
 M.).
 Christie, Henry Howard (A., P.,
 M.).
 Clark, Donald (M.).
 Clark, John Sawers, M.A. (A., P.).
 Coutts, James (A., P., M.).
 Cowan, Andrew Donaldson (A.,
 M.).
 Craig, Thomas Lawson (A., P.).
 Crawford, Arthur Muir (A., P., M.).
 Cunningham, Weir Burns (A. P.).
 Dempster, Harold Windley (P., M.).
 Douglas, Allan Campbell (M.).
 Driscoll, Richard John (M.).
 Dunbar, James (A.).

Eaton, Ernest Milne (A., P.).
 Forrest, Thomas Henderson (M.).
 Georgeson, James Wilfred (P.).
 Gilbert, William (A., P., M.).
 Gilchrist, William (A.).
 Gray, Arnold Harris (A., P.).
 Greig, John Isdale, M.A. (M.).
 Guthrie, Robert Neil (A., P., M.).
 Hammond, John (A., P.).
 Hardie, William Towers (A.).
 Hill, Robert M'Cowan (A.).
 Hislop, Lawrence (M.).
 Hudson, Rose Isobel (A., P., M.).
 Hunter, David Guthrie, M.A. (M.).
 Hutchison, Harry Stewart (M.).
 Jones, Arnold Ernest (A., M.).
 Kelly, Percy James (A.).
 Keys, John (A., P.).
 Kidd, James Dunlop (A., P.).
 Leckie, Robert Wright (A.).
 Leggat, Alexander (A.).
 Lucas, Katharine Robina Margaret
 (A.).
 M'Call, Alexander (P.).
 M'Cartney, John (M.).
 MacDonald, David (A., P., M.).

M'Farlane, James (A., P., M.).
 M'Kay, John Henry (A., P., M.).
 Mackenzie, Thomas Cooper (P.).
 Mackenzie, William Ferguson (A., P., M.).
 Macleod, William (A.).
 MacNaughtan, Norman Smith (A.).
 M'Neill, Alister Argyle Campbell (A., P.).
 Macquarie, Charles James Colquhoun (A., P., M.).
 Manson, William Hislop, M.A. (M.).
 Marshall, Robert (A., P.).
 May, Robert (A.).
 Miller, John (A., P., M.).
 Miller, William (A., P.).
 Mitchell, Peter, M.A. (A., P.).
 Moir, Hugh Walker (A., P., M.).
 O'Hare, Patrick Joseph (A.).
 Oswald, John (P.).
 Paul, James Hogg (A., P.).
 Paxton, Arthur Geoghegan (P.).
 Picken, Agnes, M.A. (A., P., M.).
 Reid, John (M.).
 Reid, Harriett Rowland Louise (A., M.).
 Reis, Vera Dagmar (P.).

Robertson, Frederick Gordon (A., P., M.).
 Russell, John Cooper, M.A. (M.).
 Rutherford, William James (A., P., M.).
 Sharp, Alfred Cecil (A., P.).
 Sharp, John (A., P., M.).
 Simpson, James Charles Donaldson (P., M.).
 Slater, Robert Alexander (A.).
 Smellie, William (A., P.).
 Smith, Thomas Baillie (A., P., M.).
 Stevenson, James (A., P.).
 Stevenson, John (A., P.).
 Stewart, Arthur Anderson (A.).
 Tate, David Laurence Alexander (A., P., M.).
 Taylor, Margaret Baillie (P., M.).
 Thomson, Charles Samson (A., P., M.).
 Turnbull, Martin (P.).
 Watson, Alexander MacMillan (A.).
 Welsh, James Kennedy (A., P., M.).
 Williams, David John (M.).
 Wilson, George Haswell (A., P., M.).
 Youdelevitz, Moses (A., P.).
 Young, John (Mount Vernon) (A.).

THIRD PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (P., Pathology ; M., Medical Jurisprudence and Public Health):

October, 1903.

Adam, Scott Campbell (P., M.).
 Aitken, Andrew Blair (P.).
 Alexander, Bethia Shanks (P.).
 Anderson, Henry Graeme (M.).
 Anderson, James Richard Sunner (P.).
 Bell, Robert Daniels, M.A. (P., M.).
 Brodie, Thomas (P., M.).
 Campbell, Roberta (M.).
 Carslaw, Robert Buchanan, M.A. (M.).
 Chapman, Ethel Lily (M.).
 Davidson, David William (P.).
 Dishington, Thos. Thornton Macklin (M.).
 Donaldson, Hugh M'Millan (P.).
 Downie, George Horn (P., M.).
 Fulton, Hugh Harvie (M.).
 Grant, Donald John Gollan (P., M.).
 Gray, George Munn (M.).
 Hay, Alexander Robertson Forrest (P., M.).
 Hutchison, Archibald Yuill (P.).

Innes, Arthur (P., M.).
 Kerr, James Rutherford (P., M.).
 Kerr, John (P.).
 M'Cabe, John Bertram (M.).
 M'Cormick, Donald Carmichael (M.).
 M'Dougall, Neil (P.).
 M'Ewan, Tom Duncan (M.).
 Macfadyen, Duncan (M.).
 M'Farlane, John (M.).
 Macgregor, Alexander Stuart Murray (P., M.).
 M'Intyre, Milne (M.).
 Mackay, Charles Gordon (P., M.).
 MacLeod, Roderick (M.).
 M'Neill, Mary Lauchline (P.).
 Marshall, James (P., M.).
 Millar, Margaret Walker (P., M.).
 Mitchell, David Robertson (M.).
 Muir, Gavin Denholme (M.).
 Murdoch, John (P., M.).
 Murray, Frank Anderson (P., M.).
 Orr, Thomas (M.).
 Patrick, Howard Henderson (M.).

Pearson, John (M.).
 Pollock, Alexander MacMillan (P.).
 Pollock, Andrew Maclean (M.).
 Porter, James (M.).
 Pryce, Ethel Jane Mildred P., M.).
 Rae, William Murdoch (P.).
 Richmond, Daniel Stevenson (P.).
 Richmond, James Watson (P., M.).
 Ross, Campbell (M.).
 Ross, John Macdonald (M.).

Samson, John (M.).
 Sieger, William Hermann (M.).
 Simpson, Robert Wilfrid (P., M.).
 Smith, George Goldie, B.Sc. (M.).
 Somerville, James Alexander (P.).
 Thomson, James White (M.).
 Wilson, David Watson (M.).
 Wilson, George (P.).
 Wyper, James (P.).
 Yates, Annie May (P., M.).

April, 1904.

Alexander, Bethia Shanks (M.).
 Allan, George Allison (P.).
 Allan, William Smith (P., M.).
 Allison, Andrew (P., M.).
 Anderson, Andrew Woodroffe (M.).
 Baird, James Henderson, B.A. (P., M.).
 Barr, Hugh (P., M.).
 Beaton, George Duncan Morrison (P., M.).
 Caldwell, John Miller Hopkins (M.).
 Campbell, Thomas Murdoch, M.A. (P., M.).
 Chislett, Charles Game Angus (M.).
 Clark, Jeannie Thomson (P.).
 Dale, Robert Wilson, M.A. (P., M.).
 Dewar, Robert Scott, M.A. (P., M.).
 Duffy, Walter, M.A. (P., M.).
 Dunn, John Shaw, M.A. (P.).
 Dyke, Eric John (P., M.).
 Dyke, Hamilton William (P., M.).
 Fairley, James (P., M.).
 Fairlie, Harry Prescot (P., M.).
 Ferguson, Alexander Burns (P., M.).
 Gallagher, Mary Theresa (P., M.).
 Garry, George (M.).
 Gemmell, James (P.).
 Glaister, Joseph (P., M.).
 Graham, Alexander, B.Sc. (P., M.).
 Grier, William (P.).
 Hammond, Charles Francis Dyer (M.).
 Hart, James Duncan (P.).
 Hauxwell, Frank (P.).
 Hay, James Waugh (P., M.).
 Howell, Ralph Vincent (M.).
 Hunter, Alexander (M.).
 Hunter, James (P.).
 Jack, William Boyd (P., M.).
 Kirkwood, George Notman (P.).
 Kirkwood, William Love (P., M.).
 Logan, George Hugh (P., M.).
 Lowe, Peter, M.A., B.Sc. (P., M.).
 M'Cabe, John Bertram (P.).

M'Cosh, Thomas (P.).
 Macdonald, Walter George, M.A. (P., M.).
 M'Ewan, Duncan (P.).
 Macewen, Hugh Allan (P., M.).
 Macfie, James Denniston (P., M.).
 Macintyre, John (M.).
 Mackinnon, Ronald (M.).
 MacLeod, Roderick (P.).
 M'Murich, Matthew Thompson Drummond (P., M.).
 MacNaught, Hugh (P.).
 M'Vail, Elizabeth Maud (P.).
 Maguire, Peter (P., M.).
 Main, William (P., M.).
 Moffatt, John (P., M.).
 Moore, William Struthers (P., M.).
 Milligan, Henry Joseph (M.).
 Mitchell, David Robertson (P.).
 Nisbet, John Dunn (M.).
 Park, Charlotte Reid (M.).
 Pearson, John (P.).
 Ranken, Henry Sherwood (P., M.).
 Rankin, Cunison Deans (P., M.).
 Rankin, Thomas Hood (M.).
 Rankin, Thomas Thomson (P.).
 Renton, James Mill (P., M.).
 Robertson, Arthur (P., M.).
 Rolland, William (P.).
 Ross, Campbell (P.).
 Ross, John Macdonald (P.).
 Russell, Alexander Cappie (P., M.).
 Sieger, Edward Louis Augustin (M.).
 Sieger, William Hermann (P.).
 Somerville, James Alexander (M.).
 Spence, Mary (M.).
 Strain, Thomas (P., M.).
 Stuart, William Alexander (P., M.).
 Taylor, John (P., M.).
 Thom, Thomas (P.).
 Walker, William Lind, M.A. (P.).
 Watson, Alexander MacMillan (M.).
 Young, George (P., M.).

FOURTH PROFESSIONAL EXAMINATION.

The following passed the whole Examination (Surgery and Clinical Surgery ; Practice of Medicine and Clinical Medicine ; Midwifery) :

July, 1903.

Adam, Robert.	Lovett, Thomas.
Arthur, John William.	Macaulay, Donald.
Auld, Jeanie.	M'Culloch, James Duff.
Ballantyne, Thomas.	Macdonald, John Finlay.
Bennett, Thomas, M.A.	MacEwen, Jessie Seath.
Bisset, Archibald Grainger.	Macleod, Norman Alexander.
Blair, Alexander.	Macvea, James Anthony.
Bostock, Gertrude Dorman, B.Sc.	Martin, Anna Pollock.
Bradford, Robert George.	Matheson, Alexander, M.A., B.Sc.
Brown, John.	Miller, Eliza Jane.
Browning, Carl Hamilton.	Mitchell, Isabel Deane.
Bruce, Robert.	Mort, Spencer.
Bryson, Robert.	Morton, John Baird.
Cameron, Mary Charlotte.	Muir, Gavin.
Campbell, Jane.	Pairman, James Carmichael, M.A.
Carmichael, Daniel Lyall.	Richmond, George.
Chapman, Walter Bartlett.	Riddell, Daniel Falconer, M.A.
Clark, Alexander Erskine.	Robertson, Peter Hamilton.
Connal, Andrew.	Scott, Martha Hunter.
Cowan, Samuel Campbell.	Shand, William Garrow.
Cross, John.	Stevenson, John Black.
Dickie, David.	Stevenson, William David Hender- son, M.A.
Duncan, Jessie Galloway.	Stewart, William.
Dykes, David Garfield.	Sutherland, Arthur William, M.A.
Eadie, James.	Sutherland, John Wilson.
Finlator, Cunison Charles.	Sutherland, Peter Lindsay.
Forsyth, James.	Thom, John Allan.
Fraser, Kate, B.Sc.	Thomas, John Restell.
Gilmour, Jane Reid Foulds.	Walker, Joseph, M.A.
Glover, James.	Watson, William Norman West.
Hanson, John, M.A.	Wells, Robert Tait, M.A.
Harvey, William.	Weston, John Forrest.
Hutton, Malcolm, M.A., B.Sc.	Wilson, James.
Kelly, John Muir.	Young, John (Glasgow).
Kennedy, Alexander Dingwall.	Young, Watson.
Love, Thomas Walker.	

The following passed in the subjects indicated (S., Surgery and Clinical Surgery ; P., Practice of Medicine and Clinical Medicine ; M., Midwifery) :

July, 1903.

Baird, Helen Stephen, B.A. (S.).	M'Millan, Alexander Stewart (P., M.).
Bell, Andrew Farm (P., M.).	M'Vail, James Roy (P.).
Bolton, William Thomas (P., M.).	Millar, Peter (P., M.).
Cameron, Agnes Wallace (P., M.).	Ritchings, Mary Ann Thompson (S.).
Carruthers, Alexander Adam (P.).	Shaw, Lawrence Drew (P., M.).
Craig, James (P., M.).	Smart, Margaret Hossack (S., M.).
Davies, Hugh Collin (P., M.).	Smith, Elizabeth Helen (S.).
Dow, William (P., M.).	Stewart, Jessie Marie (M.).
Gilmour, John Ritchie (P., M.).	Stewart, Norman Burgess (P., M.).
Head, Leslie Charles Broughton (S., M.).	Wallace, Edith Christine (P., M.).
Jamieson, Alexander (P., M.).	Wildish, George Henry (P., M.).
Maclean, Alice Wesley (P., M.).	Williams, Griffith John (P., M.).
	Wright, Eldred (S., M.).

October, 1903.

Bolton, William Thomas (S.).	Maclean, John (S.).
Craig, James (S.).	M'Millan, Alexander Stewart (S.).
Davies, Hugh Collin (S.).	Smart, Margaret Hossack (P.).
Dow, William (S.).	Stewart, Norman Burgess (S.).
Head, Leslie Charles Broughton (P.).	Wallace, Edith Christine (S.).
Maclean, Alice Wesley (S.).	Wildish, George Henry (S.).

March, 1904.

Cameron, Agnes Wallace (S.).	Millar, Peter (S.).
Gilmour, John Ritchie (S.).	Williams, Griffith John (S.).
Jamieson, Alexander (S.).	Wright, Eldred (P.).

FIRST, SECOND, THIRD, AND FOURTH PROFESSIONAL EXAMINATIONS.

The following passed with distinction in the subjects indicated :

FIRST EXAMINATION.

October, 1903.

In Zoology, Physics, and Chemistry—Alexander Anderson; in Botany and Physics—James Cairns, Alexander Tulloch Inglis Macdonald, Hugh Johnstone Thomson; in Botany—John Lindsay Boyd, David Alexander Thomson, M.A.; in Zoology—Wallace Wright Adamson, George Muir Fraser, Robert Govan, Peter Cunningham M'Arthur, Horatio Matthews, James Robertson Mitchell; in Physics—Robert Rankin Bow, William Rome Cammock, Thomas Hay Campbell, James Carrick, James Robert Craig, William Marley Elliott, Archibald Fairley, Thomas Edmondstone Gray, Benjamin Hutchison, Andrew James Hutton, Alexander Mills Kennedy, James Walter M'Leod, David Manson, William Spence Melville, Archibald Campbell Munro, Isaac Papiermeister, Ralph Montgomery Fullarton Picken, Richard Rae, John Martin Taylor, Matthew Young; in Chemistry—Neilson Davie, Alexander Macphail Macdonald, Thomas Miller.

April, 1904.

In Zoology and Physics—William Aikman Muir; in Zoology and Chemistry—Thomas Edmondstone Gray, Peter Russell M'Naught, Archibald Campbell Munro; in Physics and Chemistry—Alexander Thomas Arthur Gourlay; in Botany—Margaret Gardner Forrest, Peter Cunningham M'Arthur, M.A.; in Zoology—John Lindsay Boyd, Benjamin Hutchison, Robert M'Kenzie Morison, M.A., Albert Rutherford Paterson, Ralph Montgomery Fullarton Picken; in Physics—Walter Dawson, James Kirkwood Dunlop, Mabel Foley, Josiah Stranaghan Harbinson, Archibald Hogg, Alexander Campbell MacDougall, Francis William Mackichan, James M'Millan M'Millan, Edward Quigley, Thomas David Coulthard Ross, Jessie Capie Russell, Allan Semple, James Brown Sim, Hugh Cochrane Storrie, Charles Percival Williamson, Hugh Mundle Wilson; in Chemistry—John Cruickshank, Berkeley Gale.

FIRST EXAMINATION (FOR M.B., C.M.).

October, 1903.

In Botany—Robert Stewart M'Kim, M.A.

SECOND EXAMINATION.

October, 1903.

In Physiology and in Materia Medica and Therapeutics—James Hunter; in Physiology—Charles Francis Dyer Hammond, Harry Stewart Hutchison, John Logan Stewart, M.A., Joseph Roderick Sutherland; in Materia Medica and Therapeutics—George Allison Allan, William Rolland.

April, 1904.

In Anatomy, Physiology, and Materia Medica and Therapeutics—David Laurence Alexander Tate; in Anatomy and Physiology—Peter Mitchell, M.A., Alfred Cecil Sharp; in Anatomy—Robert M'Cowan Hill; in Physiology—Charles James Colquhoun Macquarie, William James Rutherford.

SECOND EXAMINATION (FOR M.B., C.M.).

April, 1904.

In Physiology—Robert Stewart M'Kim, M.A.

THIRD EXAMINATION.

October, 1903.

In Pathology—Alexander Stuart Murray Macgregor; in Medical Jurisprudence and Public Health—Robert Buchanan Carslaw, M.A.; George Munn Gray, Arthur Innes.

April, 1904.

In Pathology—John Shaw Dunn, M.A., William Grier, William Rolland, Thomas Thom; in Medical Jurisprudence and Public Health—Joseph Glaister, James Waugh Hay, Peter Lowe, M.A., B.Sc., William Struthers Moore, James Mill Renton, Alexander Cappie Russell, William Alexander Stuart.

FOURTH EXAMINATION.

July, 1903.

In (a) Surgery and Clinical Surgery, (b) Practice of Medicine and Clinical Medicine, (c) Midwifery—Alexander Matheson, M.A., B.Sc.; in (a) Surgery and Clinical Surgery, (b) Practice of Medicine and Clinical Medicine—David Dickie; in (a) Surgery and Clinical Surgery, (b) Midwifery—James Carmichael Paiman, M.A.; in (a) Practice of Medicine and Clinical Medicine, (b) Midwifery—Samuel Campbell Cowan, Malcolm Hutton, M.A., B.Sc.; in Surgery and Clinical Surgery—James Duff M'Culloch, Spencer Mort; in Midwifery—Carl Hamilton Browning, Hugh Collin Davies, James Eadie, James Forsyth, James Glover, John Hanson, M.A., Thomas Lovett, Anna Pollock Martin, Gavin Muir, George Richmond, Daniel Falconer Riddell, M.A., William David Henderson Stevenson, M.A., John Wilson Sutherland, Robert Tait Wells, M.A.

IV.—FOR DEGREE OF B.Sc.

REGULATIONS OF 1892.

A. IN PURE SCIENCE.

FIRST SCIENCE EXAMINATION.

October, 1903.

Berry, Arthur John (Mathematics).
Brightman, John Henry (Mathematics, Natural Philosophy).
Brown, James Robert (Natural Philosophy).
Cantor, Aaron (Chemistry).
Fletcher, George (Mathematics, Natural Philosophy).
Fotheringham, John (Natural Philosophy, Chemistry).
Lang, Archibald, M.A. (Chemistry).
M'Coll, Hugh Clarke (Mathematics).

M'Lean, Elizabeth Rankin, M.A. (Chemistry).
 Smith, Hugh (Chemistry).
 Stephen, Campbell (Chemistry).
 Stewart, John, M.A. (Chemistry).

April, 1904.

Berry, Arthur John (Natural Philosophy, Chemistry).
 Brightman, John Henry (Chemistry).
 Davidson, Alfred (Chemistry).
 Donald, William Buchan (Chemistry).
 Dunlop, James Kirkwood (Natural Philosophy, Chemistry).
 Hendry, James (Mathematics, Natural Philosophy).
 Kaye, John (Chemistry).
 Lambie, John (Natural Philosophy).
 Lindsay, Dorothy Elizabeth (Natural Philosophy).
 Macfarlane, Robert (Chemistry).
 M'Lean, Elizabeth Rankin, M.A. (Natural Philosophy).
 M'Millan, Andrew, M.A. (Chemistry).
 Macphie, Donald (Mathematics, Natural Philosophy).
 MacRobert, Thomas Murray (Chemistry).
 M'Whan, John (Natural Philosophy).
 Moyes, James, M.A. (Chemistry).
 Nicholson, Clark, M.A. (Natural Philosophy).
 Oswald, William (Mathematics, Natural Philosophy).
 Pate, George (Mathematics, Natural Philosophy).
 Purdie, John (Chemistry).
 Smith, Hugh (Natural Philosophy).
 Steven, Alfred Ingram (Mathematics, Natural Philosophy, Chemistry).
 Stokes, George Duncan Campbell (Chemistry).
 Sutherland, Maggie Millen Jeffs (Mathematics).
 Turnbull, Arthur (Natural Philosophy).
 Wilson, James Calvert (Mathematics).

FINAL SCIENCE EXAMINATION.

October, 1903.

Anderson, John, M.A. (Physiology, Zoology).
 Barbour, Thomas (Physiology).
 Campbell, John (Mathematics, Natural Philosophy).
 Duncan, William Hunter (Geology and Mineralogy).
 Fukuzawa, Sampachi (Chemistry).
 Greig, John Isdale, M.A. (Anatomy).
 Hunter, James, M.A. (Mathematics, Natural Philosophy).
 Hutchison, Harry Stewart (Chemistry, Anatomy).
¹M'Cririck, Thomas, M.A. (Zoology, Botany).
 Mackenzie, Thomas Dingwall (Geology and Mineralogy).
²M'Quistan, Dougald Black, M.A. (Astronomy).
³Miller, William (Mathematics, Natural Philosophy).
 Ross, John Johnston, M.A. (Astronomy).
²Stewart, John Henderson, M.A. (Astronomy).
 Thomson, David, M.A. (Geology and Mineralogy).
 Wiseman, William Richard, M.A. (Geology and Mineralogy).

¹ With Special Distinction in Zoology.

² With Special Distinction in Astronomy.

³ With Special Distinction in Mathematics and Natural Philosophy.

April, 1904.

Anderson, John, M.A. (Geology and Mineralogy).
 Arthur, David (Zoology).
 Baird, Andrew Cumming, M.A. (Geology and Mineralogy).
 Barbour, Margaret, M.A. (Geology and Mineralogy).
 Campbell, John (Chemistry).
 Finlay, Archibald Barbour, M.A. (Astronomy).
 Forrest, Samuel Norris, M.A. (Chemistry).
 Frew, John, M.A. (Geology and Mineralogy).
 Fukuzawa, Sampachi (Mathematics, Natural Philosophy).
 Gow, Louis Niel, M.A. (Natural Philosophy).
 Graham, Alexander, B.Sc. Agric. (Anatomy).
 Greig, John Isdale, M.A. (Physiology).
 Hunter, James, M.A. (Astronomy).
 Hutchison, Harry Stewart (Physiology).
 Mackenzie, Thomas Dingwall (Physiology).
 M'Pherson, William Pettigrew (Chemistry, Geology and Mineralogy).
 Nolan, Kathleen Mary (Botany).

B. IN ENGINEERING.

FIRST SCIENCE EXAMINATION.

October, 1903.

Archibald, Robert Douglas (Higher Mathematics, Ordinary Natural Philosophy, Physical Laboratory, Chemistry).
 Barclay, Noel M'Eachran (Chemistry, Chemical Laboratory).
 Beilby, Hubert Noel (Higher Natural Philosophy).
¹Bilsland, Robert (Higher Mathematics, Higher Natural Philosophy, Physical Laboratory, Chemistry).
 Craig, George Mather (Physical Laboratory, Chemistry).
 Donaldson, Alexander Cleveland (Ordinary Natural Philosophy).
 Ellis, Thomas (Higher Mathematics).
 Forrest, George Henry (Ordinary Natural Philosophy, Chemistry, Chemical Laboratory).
 Gardner, John Hyslop (Ordinary Natural Philosophy).
 Georgoussis, Philopemen (Higher Mathematics, Ordinary Natural Philosophy, Physical Laboratory, Chemistry).
 Hartley, Richard Frederick (Higher Mathematics, Higher Natural Philosophy).
 Henderson, John Alexander (Ordinary Mathematics, Physical Laboratory).
 Howat, William Carrick (Higher Natural Philosophy).
 Howden, James (Higher Natural Philosophy).
 La Torre, Carlo (Higher Natural Philosophy).
¹M'Cance, John (Higher Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
 Macfadzean, James (Chemistry, Chemical Laboratory).
 Macfarlane, George Gordon (Chemical Laboratory).
 Maxwell, John Maxwell Scott (Higher Mathematics).
 Norwell, Alexander (Higher Mathematics, Ordinary Natural Philosophy).
 Roberts, Cyril Humphrey (Ordinary Natural Philosophy).
 Rodger, John Leitch (Chemistry, Chemical Laboratory).
 Slodre, Edmondo (Chemical Laboratory).
 Spartali, Michael (Higher Mathematics, Higher Natural Philosophy).

¹ With Special Distinction in Physical Laboratory.

Tainsh, John Alexander Gowans (Higher Mathematics).
 Turner, Thomas Lindsay (Ordinary Natural Philosophy, Chemistry).
 Weller, Henry Owen (Higher Natural Philosophy).
 Yeaman, William George (Higher Mathematics).

April, 1904.

Adams, Bernard Inman Franklin (Higher Natural Philosophy).
¹Anderson, Matthew Graham (Higher Natural Philosophy, Chemistry).
¹Archibald, Robert Douglas (Higher Natural Philosophy).
 Barnwell, Frank Sowter (Higher Natural Philosophy, Chemistry, Chemical Laboratory).
 Bondegaard, Ejnar (Higher Natural Philosophy).
 Brown, John (Higher Natural Philosophy).
 Chisholm, Alexander, M.A. (Higher Mathematics).
²Climie, Henry Richmond (Ordinary Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
 Coats, James Richardson (Higher Natural Philosophy).
 Craig, George Mather (Higher Natural Philosophy).
²Crockatt, William Campbell (Ordinary Mathematics, Ordinary Natural Philosophy, Physical Laboratory, Chemistry).
 Dunlop, John Christopher (Physical Laboratory).
 Dymock, John Dobie Halliday (Higher Mathematics, Physical Laboratory).
 Ellis, Thomas (Higher Natural Philosophy, Physical Laboratory, Chemistry).
 Forrest, George Henry (Higher Mathematics).
 Gardner, John Hyslop (Chemical Laboratory).
 Halley, Matthew White (Ordinary Mathematics).
 Hodge, Harry Fairlie (Higher Natural Philosophy).
¹Hutchison, Alexander (Higher Natural Philosophy).
¹Kerr, Duncan John (Higher Natural Philosophy).
 Kerr, James Reid (Chemistry).
 Kerr, John (Higher Natural Philosophy).
 Kirkwood, John (Higher Natural Philosophy).
 Lang, Walter (Ordinary Mathematics).
 Lawrance, Alexander (Higher Natural Philosophy).
 Lorente-Martinez, Mariano Joaquin (Ordinary Mathematics).
 M'Cance, John (Higher Natural Philosophy, Chemistry).
 Macfadzean, James (Higher Mathematics).
 Macfarlane, George Gordon (Ordinary Mathematics, Chemistry).
 McNeil, Charles (Chemistry).
 Maxwell, John Maxwell Scott (Higher Natural Philosophy).
 Napier, Andrew Dunseath (Ordinary Mathematics, Ordinary Natural Philosophy, Chemistry, Chemical Laboratory).
 Norwell, Robert Nicol (Ordinary Mathematics).
 Russell, Ernest William (Ordinary Mathematics).
 Scougal, Francis William (Physical Laboratory).
 Stiell, Edwyn James (Ordinary Mathematics).
 Taylor, Charles Allison (Ordinary Mathematics, Chemistry, Chemical Laboratory).
 Tinto, John Ferguson (Higher Natural Philosophy, Chemistry).
 Walker, Robert Leitch (Chemical Laboratory).
 Weir, James George (Chemistry).
 Whitehead, John (Higher Natural Philosophy).

¹ With Special Distinction in Natural Philosophy.

² With Special Distinction in Physical Laboratory.

FINAL SCIENCE EXAMINATION.

October, 1903.

Blair, Robert (Engineering and Drawing).
 Crichton, Robert (Engineering and Drawing, Geology and Mineralogy).
 Cuthbertson, Robert (Geology and Mineralogy).
 Hartley, Sidney (Engineering Laboratory—Mechanical).
 Hodge, Harry Fairlie (Electricity—Pure and Applied).
 Holmes, Robert Gerard Addison (Naval Architecture and Drawing).
 Howden, James (Engineering and Drawing).
 Kirkwood, John (Electricity—Pure and Applied).
 M'Crindle, John Alexander (Engineering and Drawing, Geology and Mineralogy).
 MacDougall, John Ernest (Engineering and Drawing).

April, 1904.

Adams, Bernard Inman Franklin (Engineering and Drawing).
¹Archibald, Robert Douglas (Engineering and Drawing, Electricity—Pure and Applied).
 Begg, James M'Gee (Engineering and Drawing).
 Beilby, Hubert Noel (Engineering and Drawing, Electrical Engineering).
 Bilsland, Robert (Engineering and Drawing, Electricity—Pure and Applied).
 Bondegaard, Ejnar (Naval Architecture and Drawing).
 Brown, John (Engineering and Drawing).
 Coats, James Richardson (Engineering and Drawing, Engineering, Class III.).
²Cousens, Henry James Morrison (Engineering and Drawing, Engineering, Class III.).
 Craig, George Mather (Engineering and Drawing, Electricity—Pure and Applied).
 Donald, William Francis Maxwell (Engineering and Drawing).
 Georgoussis, Philopemen (Electrical Engineering).
³Haigh, Bernard Parker (Engineering and Drawing, Engineering Laboratory—Electrical).
 Hodge, Harry Fairlie (Engineering and Drawing).
¹Kerr, Duncan John (Engineering and Drawing).
 Kerr, John (Engineering Laboratory—Electrical).
 La Torre, Carlo (Naval Architecture and Drawing, Engineering).
 Lawrance, Alexander (Engineering Laboratory—Electrical).
 MacConnell, John Alexander (Engineering and Drawing).
 Maxwell, John Maxwell Scott (Engineering and Drawing).
 Muirhead, Thomas (Electrical Engineering).
 Norwell, Alexander (Engineering Laboratory—Electrical).
 Roberts, Cyril Humphrey (Engineering and Drawing).
 Spartali, Michael (Engineering and Drawing, Engineering Laboratory—Mechanical).
⁴Thomson, John (Electrical Engineering).
 Ure, Robert (Engineering and Drawing).
 Whitehead, John (Engineering and Drawing, Electricity—Pure and Applied).

¹With Special Distinction in Engineering and Drawing.

²With Special Distinction in (a) Engineering and Drawing, (b) Engineering Class III.

³With Special Distinction in (a) Engineering and Drawing, (b) Engineering Laboratory, Electrical.

⁴With Special Distinction in Electrical Engineering.

C. IN AGRICULTURE.

FIRST SCIENCE EXAMINATION.

October, 1903.

Paterson, William George Rogerson (Natural Philosophy, Chemistry).
 Stevenson, William (Natural Philosophy).

April, 1904.

Brown, John (Mathematics).
 Smith, John Hunter (Mathematics, Natural Philosophy).
 Stevenson, William (Chemistry).

FINAL SCIENCE EXAMINATION.

October, 1903.

Leitch, Neil (Geology, Agricultural Entomology, Economic Science).
 MacGregor, Gregor, M.A. (Geology, Engineering Field Work).

April, 1904.

Leitch, Neil (Agricultural Botany, Engineering Field Work).
 MacGregor, Gregor, M.A. (Agriculture and Rural Economy, Agricultural Chemistry, Agricultural Entomology).
 Paterson, William George Rogerson (Geology, Agricultural Botany, Agricultural Entomology).
 Struthers, John, M.A. (Agriculture and Rural Economy, Agricultural Chemistry, Veterinary Hygiene, Engineering).
 Watt, Robert Dickie, M.A. (Veterinary Hygiene, Agricultural Botany, Agricultural Entomology).

D. IN PUBLIC HEALTH.

FIRST EXAMINATION.

April, 1904.

Galt, Hugh, M.B., C.M. (Public Health Laboratory, Physics, Geology).

V.—FOR CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

October, 1903.

Ellis, Thomas (Mathematics).
 Hartley, Richard Frederick (Mathematics).
 Hartley, Sidney (Engineering Laboratory—Mechanical).
 Hodge, Harry Fairlie (Electricity—Pure and Applied).
 McCrindle, John Alexander (Geology and Mineralogy).
 Rodger, John Leitch (Chemistry).
 Tainsh, John Alexander Gowans (Mathematics).
 Yeaman, William George (Mathematics).

April, 1904.

Cousens, Henry James Morrison (Engineering and Laboratory, Drawing, Engineering Class III.).
 Donald, William Francis Maxwell (Engineering and Laboratory, Drawing).
 Hodge, Harry Fairlie (Engineering and Laboratory, Drawing).
 Norwell, Alexander (Engineering Laboratory—Electrical).
 Rodger, John Leitch (Engineering Laboratory—Electrical).
 Ure, Robert (Engineering and Laboratory, Drawing).

VI. FOR DEGREE OF M.A.

NEW REGULATIONS.

A.—LANGUAGE AND LITERATURE.

LATIN.

October, 1903.

Aitken, Alexander Kerr.	MacRobert, Alexander Fisher.
Anderson, John Wilson.	Manson, William (I. Hon.).
Barbour, Margaret.	Marshall, Peter (II. Hon.).
Barr, Robert William (II. Hon.).	Mathieson, Mary Daisy.
Borland, William Dunlop.	Milburn, Walter.
Brooke, Phoebe Martha.	Millar, John.
Brown, Agnes Cowie Steel.	Moffat, Alexander (II. Hon.).
Bryan, William Rutherford.	Montgomerie, David Lindsay.
Cameron, John (Mull).	Morison, Winifred Dougall.
Campbell, James Oswald.	Muirhead, Alfred Patman.
Campbell, William Ramsay.	Munro, John Martin.
Cantor, Aaron.	Neil, Jeanie Gemmill.
Cunningham (Robert (III. Hon.).	Nelson, Charles Gilbert (I. Hon.).
Donald, William Buchan (II. Hon.).	O'Doherty, Frances.
Downes, Arthur Drummond.	Phillips, Harry Joseph (III. Hon.).
Dunnet, Elizabeth.	Pollock, George Alexander.
Elliott, Gilbert Wilkie.	Pollock, James Macdougall.
Falconer, John Alexander.	Robertson, Annie Stewart.
Gillies, William.	Robertson, Jenny Torrance.
Glen, Thomas Stobo.	Scott, James Edward (II. Hon.).
Graham, Seymour.	Shaw, Christina Hamilton.
Grant, Jessie Elizabeth Gollan.	Shepherd, Arthur (II. Hon.).
Greenfield, Elizabeth Curle.	Somerville, Elizabeth.
Harvey, Jeanie Mitchell.	Stevenson, James Hall (II. Hon.).
Kellow, Henry Arthur.	Taylor, David.
M'Caig, Neil.	Thomson, Robert Percy.
M'Connachie, John Allan.	Trafford, Henry Martyn.
Macfarlane, Ellen Catherine.	Walker, Hector.
Macfarlane, Mary.	Wallace, Arthur Stanley.
Macfarlane, Robert.	Wyllie, Jessie.
Macphie, Donald.	Young, John.

April, 1904.

Alexander, Mary.	Brand, Wilhelmina Reid.
Anderson, George.	Burns, David.
Anderson, Jessie.	Cameron, Charles.
Archibald, Mungo Tennent.	Campbell, Malcolm George
Archibald, Robert Richmond.	Carson, David.
Auld, William James (II. Hon.).	Carswell, Donald (II. Hon.).
Baxter, William James.	Collingwood, John Crawford.
Beaton, Alexander.	Colquhoun, Robert Fletcher.
Begg, John.	Corrie, Richard Clayton.
Bell, George.	Cowie, Peter Buchan Watson.
Bennett, William.	Craig, Robert.
Blair, George.	Craig, Robert William.
Blair, Margaret.	Cullen, Charles.
Borthwick, Jessie Dougall.	Cunningham, Henry Illingworth.
Bow, Jean Wilson.	Cunnison, James.

Dalgleish, Walter Scott Lang.	M'Creath, James Fergusson.
Davidson, Joseph.	M'Culloch, Mary Malcolm.
Davie, Georgina Pollock.	Macdonald, Daisy.
Deans, Grace Martin Hunter.	Macdonald, John Finlay.
Devine, James M'Donald (I. Hon.).	M'Ewan, Catherine M'Pherson.
Dick, Jennie.	M'Ewan, William.
Donald, Andrew.	Macfarlane, John.
Downie, David.	M'Farlane, Margaret Conchie
Dyer, Marguerite Morton.	Raphael.
Findlay, James Wilkie.	M'Gill, Mary Watson.
Fletcher, Henry Mungles.	M'Gown, Robert.
Forsyth, Charles.	M'Harg, James Adam.
Forsyth, James Willison.	M'Irvey, Thomas Niven.
Gardiner, William Roberts.	M'Kay, Henry.
George, Flora Graham.	Mackie, Janet Ingis Wyllie.
Gordon, Margaret.	MacLean, Alexander.
Grant, Robert.	MacLean, Alexander Cockburn.
Gray, Joseph.	Maclean, Benjamin.
Grice, John Radcliffe.	Maclean, William Archibald.
Grier, James M'Farlane.	MacMorland, James.
Gueritz, Elton Lawrence.	M'Nicol, William.
Haddow, Elizabeth Rowat.	M'Nidder, Katherine Thomson.
Harcus, Andrew Drummond.	Macphail, Annie Mitchell.
Harley, Margaret Allan.	MacPherson, John.
Harper, Alexander Bain.	Macready, Margaret Ferguson.
Harper, James.	M'Rorie, Thomas Robertson.
Henderson, Ruby Fergus.	Main, James Hunter.
Higgins, Hugh.	Maxton, James.
Higgins, William.	Maxton, Jessie M'Nicol Purdon.
Hogg, James (Uddingston).	Meek, Charles Kingsley.
Houston, Matthew Barr.	Merry, William Johnston.
Hughes, Joan Dorothea.	Mitchell, James Hendrie.
Hunt, Katharine Janet.	Moir, Margaret Barr.
Hunter, John Mercer.	Morrison, Grace.
Hyslop, Thomas.	Muir, Margaret.
Irvine, Alexander Hyndman.	Muir, Margaret Glendinning.
Jeffrey, Frank.	Muir, Marion.
Jolly, Elizabeth Averill.	Munro, William Angus.
Keith, James.	Murdoch, William Anderson.
Kennedy, David (Cumnock).	Niven, John.
Kerr, William (Glengarnock).	Notman, Thomas.
Kirkwood, Effie Grace.	Oswald, Jeanie Stewart.
Kirkwood, Peter Scott.	Oswald, William.
Knowles, Isobel Alexander.	Patrick, Adam (II. Hon.).
Lamb, John.	Paul, Agnes Jane.
Latta, Thomas Douglas.	Phillips, Louis Carrick.
Lee, James Robert.	Power, Ada Joan.
Levine, Jacob.	Rankine, John.
Lindsay, Robert Robertson.	Reid, John (Lochwinnoch).
Lyon, Agnes Mary.	Ritchie, James (Fauldhouse).
M'Adam, David.	Ritchie, James (Glasgow).
M'Arthur, James.	Robertson, Douglas Dickson.
Macaulay, James Parker.	Rorke, Joseph Davidson Manners.
M'Beath, John.	Ross, Mary Bella.
M'Cartney, John.	Roughead, Margaret.
M'Coll, John.	Routledge, Margaret Jardine.

Scott, James M'Alpine.
 Shanks, Eleanor Mary Barr.
 Sinclair, Annie M'Adam.
 Sinclair, Annie Service.
 Skeil, Alexander.
 Smith, David Bromfield.
 Sommerville, Thomas.
 Spence, Isabella.
 Steele, John Aulay.
 Stephen, Jean Graham.
 Stevely, William.
 Stevenson, Elizabeth Findlay.
 Stewart, Edward James Alexander.
 Stewart, George.
 Stokes, George Duncan Campbell.
 Struthers, James.
 Sutherland, Barbara.
 Sutherland, Donald.

Tait, John Watt.
 Talman, John.
 Taylor, John William.
 Taylor, Margaret Oswald.
 Taylor, Mary Reid.
 Telfer, Maggie.
 Waddell, William Gillan.
 Wallace, David Johnston.
 Walton, Andrew Kerr.
 Westwater, James.
 White, Alexander Mill.
 Whitson, Edith Mary.
 Wilson, John.
 Wright, Helen Erskine.
 Wylie, Marion Aitken.
 Young, Annie Muirhead.
 Young, Jane Paton.
 Yuille, Alexander Tulloch Robertson.

GREEK.

October, 1903.

Barr, Robert William (II. Hon.).
 Battersby, David Hardie.
¹ Crichton, Alexander Pender.
 Cunningham, Robert (III. Hon.).
 Donald, William Buchan (II. Hon.).
 Gillies, William.
 Mackenzie, Alexander Ramsay.
 M'Whan, John.
 Manson, William (I. Hon.).
 Marshall, Peter (II. Hon.).

Moffat, Alexander (II. Hon.).
 Neilson, Duncan Hamilton.
 Nelson, Charles Gilbert (I. Hon.).
¹ Paterson, William.
 Phillips, Harry Joseph (III. Hon.).
 Reid, Marion Young.
 Scott, James Edward (II. Hon.).
 Shepherd, Arthur (II. Hon.).
 Stevenson, James Hall (II. Hon.).
¹ Trafford, Henry Martyn.

April, 1904.

Aitken, Alexander Kerr.
 Anderson, George.
 Archibald, Mungo Tennent.
 Auld, William James (II. Hon.).
 Blair, George.
 Carswell, Donald (II. Hon.).
 Corrie, Richard Clayton.
 Cunningham, Henry Illingworth.
 Devine, James M'Donald (I. Hon.).
 Gueritz, Elton Lawrence.
 Harper, Alexander Bain.
 Hogg, James (Uddingston).
 Hunter, Samuel Fowler.
 M'Ewan, William.
 M'Iravey, Thomas Niven.
 MacLean, Alexander.
 Maclean, Benjamin.

Maclean, William Archibald.
 M'Rorie, Thomas Robertson.
 Meek, Charles Kingsley.
 Miller, Thomas.
 Morgan, Irving Moffat.
 Murdoch, William Anderson.
 Patrick, Adam (II. Hon.).
 Phillips, Louis Carrick.
 Scott, James M'Alpine.
 Stewart, Edward James Alexander.
 Strathie, David Norman.
 Tait, John Watt.
 Waddell, William Gillan.
 Wallace, David Johnston.
 Walton, Andrew Kerr.
 Wilson, John.
 Yuille, Alexander Tulloch Robertson.

¹ Special Examination (translating into English) with view to Honours in Mental Philosophy.

ENGLISH.

October, 1903.

Anderson, Euphemia Logan Cairnie.	Patrick, Samuel Barr.
Blyth, Robert Oswald.	Paul, Agnes Jane.
Calderwood, Andrew Fulton.	Rankin, Adam Aird.
Duncan, Mary.	Ross, Lachlan M'Millan.
Gillies, Daniel, M.A. (II. Hon.).	Shennon, Malcolm.
Gordon, Donald Campbell Bryce.	Skelley, Robert.
Hamilton, Louis.	Sprunt, Annie Crichton.
Irvine, Alexander Hyndman.	Steele, John Aulay.
Ketchen, Marjory Ogilvy.	Stirling, Violet Binning.
M'Dougall, Peter, M.A. (III. Hon.).	Watson, Donald Bannatyne.
Murray, Charles Robinson.	Wilson, Christian Alice.
Pairman, George.	

April, 1904.

Allan, Margaret Elizabeth.	Houston, Jessie Spalding.
Anderson, John Wilson.	Hutcheson, John, M.A. (II. Hon.).
Barclay, William.	Hynd, Alexander.
Bayne, Alexander Robert.	Insh, George Pratt.
Bennett, Octavia Jane Ronald.	Johnston, John Ferguson.
Bernard, Robert Mitchell.	Keddie, Janey Aitken.
Biggar, Matthew.	Kerr, William Miller.
Black, John Bennett.	Kirk, Margaret Mary.
Blair, Henry.	Lang, Archibald, M.A.
Brayne, Albert Frederic Lucas.	Lang, William Paterson.
Brown, Agnes Cowie Steel.	Lindsay, Hilda Oliphant.
Cameron, John (Nitshill).	Logan, Jessie Grant Morison.
Carswell, Margaret Hunter.	M'Adam, William.
Carter, Arthur John Jenkins.	M'Alpine, Archibald.
Conn, David.	M'Caig, Neil.
Cunnison, James.	M'Clements, Robert Alexander.
Dickson, Douglas Stanley.	M'Coll, John.
Donald, Gavin M'Culloch.	Macdonald, Chrissibelle.
Douglas, Thomas Logan.	Macdonald, Elsie Frame.
Dow, William Johnstone.	Macdougall, Grace.
Downie, Catherine.	M'Geachin, Margaret Allen.
Dunnet, Elizabeth.	M'Gilchrist, Robina Douglas.
Easton, Mary Rodgerson.	Macgregor, Arthur Esdaile.
Falside, William James.	M'Iroy, Susan.
Farquharson, Margaret Milne M'Con-	Mackenzie, Peter Murchison.
nachie.	Mackie, Janetta Inglis Wyllie.
Fenter, Susan Ethel.	Mackinnon, Ewen.
Fletcher, George.	M'Kinnon, Malcolm.
Forster, Marion Carrick.	M'Nabb, Christian Wallace.
Fraser, Robert.	MacPhail, Lachlan.
Fulton, William Maxwell.	Macrae, Malcolm Beaton.
Gardner, Alexander.	Marshall, Barbara Carswell.
Gilchrist, William Shand.	Matthew, Edward Smith.
Glen, Thomas.	Maxwell, John Hamilton.
Grant, Robert.	Menzies, James.
Grant, Robert Monteath.	Mickel, Jane Nicol.
Hall, John.	Millar, James.
Hepburn, William Alexander.	Miller, Campbell Lamont.
Hogg, James (Kilbirnie).	Milligan, John Donald.

Milne, William Murray.
 Moir, Alexander.
 Monie, Matthew Morton.
 Muir, Douglas Alexander George.
 Munro, John Martin.
 Murchie, Robert Welch.
 Nicolson, Donald MacDonald.
 O'Beirne, Andrew Thomson.
 Orr, John Reid.
 Paul, James.
 Pearson, Margaret Hunter.
 Pollock, James Macdougall.
 Pollock, Malcolm.
 Preston, Berry.
 Rankine, John.
 Reid, John (Govanhill).
 Ritchie, James (Campbeltown).
 Robertson, George Robert.
 Robertson, Isabella Beatrice.
 Robertson, Jenny Torrance.
 Ross, George Mill.
 Russell, Albert.
 Russell, Bessie.

Russell, George.
 Scott, Thomas Thripland.
 Shanks, Thomas.
 Sheridan, Robert.
 Sievwright, John Smith.
 Smith, Sydney.
 Stewart, George.
 Stewart, James (Lochee).
 Stuart, Mary Isabelle Moody.
 Templeton, Andrew.
 Thomson, James (Millerston).
 Turnbull, Arthur.
 Turner, Thomas Lindsay.
 Waddell, Mary Campbell.
 Wallace, Arthur Stanley.
 Wallace, James Elliot.
 Wallace, William.
 White, William Kay.
 Whitson, Edith Mary.
 Wilson, James Lauder.
 Woodburn, John Murray.
 Wright, Robert James.
 Wyllie, Jessie.

FRENCH.

October, 1903.

Archibald, Constance Helen Margaret (I. Hon.).	Guthrie, Alice Margaret Blyth (I. Hon.).
Barrowman, Mary (II. Hon.).	Kirk, Margaret Mary.
Biggar, Mary Campbell (I. Hon.).	M'Gilchrist, Robina Douglas.
Dunnet, Elizabeth.	M'Neill, Margaret.
Green, Janet (I. Hon.).	

April, 1904.

Armour, Mary Fullarton.	Jockel, Catherine Henrietta.
Arnott, Annie Jane (I. Hon.).	Johnston, Mary M'Dougall Leckie.
Bell, John Cleminson.	Johnstone, Robert Hanna.
Brooke, Phoebe Martha.	Keddie, Janey Aitken.
Campbell, Catherine Hood.	Kivlichan, Agnes.
Cowie, Margaret Rennie.	Lambie, Henry.
Craig, Arthur (II. Hon.).	Macdonald, Annie Violet.
Craig, Margaret Cormack.	Macdonald, Chrissibelle.
Ferguson, Robert.	Macdougall, Grace.
Forrest, Elizabeth Alexander,	M'Ewen, Christina Cameron.
Glen, Thomas Stobo.	Macfarlane, Ellen Catherine.
Greer, Samuel.	Mackenzie, Bertha Agnes.
Grice, John Radcliffe.	MacLean, John (Wishaw).
Harper, Agnes.	MacMillan, Elizabeth.
Harrison, Rhoda Gertrude.	M'Whirter, Jeanie Douglas.
Harvie, Jeanie Mitchell.	Main, David Williams.
Henderson, Adelaide.	Masterton, Jessie Vallance.
Hewitt, Jeanie Allan Telfer.	Matheson, Margaret.
Hogg, John.	Merry, Mary.
Hunter, Helen Mackintosh.	Mitchell, Helen Armour.
Irvine, Annie Park.	Munro, William Angus.
Jackson, John.	Robertson, Annie Stewart.

Robertson, Jenny Torrance.
Sage, Mary Dorothea.
Scott, Elizabeth Wilkie (I. Hon.).
Sempill, Hugh Douglas.
Smith, Jessie Murdoch.

Thomson, Annie (Glasgow).
Waddington, Mary Margaret.
Watt, Jeanie Bunten.
Weir, Justina Thomson.
Wilson, Andrew.

GERMAN.

October, 1903.

Archibald, Constance Helen Margaret (I. Hon.).	Brand, Wilhelmina Reid.
Barrowman, Mary (II. Hon.).	Green, Janet (I. Hon.).
Biggar, Mary Campbell (I. Hon.).	Guthrie, Alice Margaret Blyth (I. Hon.).

April, 1904.

Arnott, Annie Jane (I. Hon.).	Morton, Margaret Steel.
Campbell, Catherine (Taynuilt).	Neil, Jeanie Gemmill.
Craig, Arthur (II. Hon.).	Oliphant, Grace.
Duncan, Mary.	Reid, Dorothy Grainger.
Forrest, Elizabeth Alexander.	Ritchie, Flora.
Hewitt, Jeanie Allan Telfer.	Scott, Elizabeth Wilkie (I. Hon.).
Macgregor, Annie Murray.	Smith, Isabella Robson.
Mackinnon, Ewen.	Waddington, Mary Margaret.
Mitchell, Helen Armour.	Weir, Justina Thomson.

ITALIAN.

April, 1904.—Robertson, Muriel.

HEBREW.

April, 1904.—Macgill, William Duncanson.

B.—MENTAL PHILOSOPHY.

LOGIC AND METAPHYSICS.

October, 1903.

Aitken, Mary Gardner.	Mackenzie, Bertha Agnes.
Burn, Jeannie.	Maclean, Charles.
Cameron, John (Mull).	M'Neill, Margaret.
Clark, Duncan Walker.	Murray, Charles Robinson.
Copland, John.	Rusk, Robert Robertson (I. Hon.).
Gordon, James.	Scott, John Waugh (I. Hon.).
Hall, Hugh Lang.	Scoular, Andrew Findlay.
Henderson, William Williamson.	Smart, John.
Jeffrey, Frank.	Sneddon, Robert William.
Latta, Mary Muir.	Walker, George William.
Leighton, George Simpson Blair.	Walker, John Barnhill.
Macdonald, Donald.	Wordie, William.
M'Donald, Roderick Alexander.	

April 1904.

Alexander, James Neil.	Barclay, William.
Anderson, Jessie.	Battersby, David Hardie.
Armour, Mary Fullarton.	Baxter, Mary Gillies.
Armstrong, Robert Stirling.	Bayne, Alexander Robert.
Barbour, William.	Beaumont, Thomas.
Barclay, James Mathie.	Biggar, Matthew.

Black, John Bennett.
 Blackwood, Bruce Beveridge.
 Brand, Wilhelmina Reid.
 Brooke, Phoebe Martha.
 Brown, John Rankine.
 Burns, Robert (Larkhall).
 Calderwood, Andrew Fulton.
 Campbell, Archibald Angus.
 Campbell, William Ramsay.
 Carmichael, James.
 Clark, Andrew.
 Colquhoun, Robert Fletcher.
 Conley, Neil.
 Conn, David.
 Conn, Robert.
 Cuthbertson, John Montague.
 Davie, Georgina Pollock.
 Dickson, Douglas Stanley.
 Donald, Andrew.
 Donald, Gavin M'Culloch.
 Downie, David.
 Findlay, William Erskine.
 Fletcher, George.
 France, George.
 France, John Galbraith.
 Fraser, George Sutherland.
 Fraser, Robert.
 Fraser, William.
 Fulton, William Maxwell.
 Gardiner, William Roberts.
 Gillies, William.
 Good, James.
 Gordon, James Alison.
 Grant, Alexander Colquhoun.
 Gray, Margaret Muriel.
 Greenfield, Elizabeth Curle.
 Hamilton, Louis.
 Harper, Agnes.
 Harvie, Robert.
 Henderson, Ruby Fergus.
 Herbertson, George Richmond.
 Hinkins, John.
 Howard, William.
 Hynd, Alexander.
 Inglis, Helen.
 Irvine, Alexander Hyndman.
 Isdale, David.
 Jack, William.
 Jamieson, Samuel Robertson.
 Jardine, Lizzie Macnaughton.
 Jockel, Catherine Henrietta.
 Johnston, John Ferguson.
 Johnston, Mary M'Dougall Leckie.
 Johnstone, Robert Hanna.
 Jolly, Elizabeth Averill.
 King, William.

Kirkwood, Peter Scott.
 Laird, Andrew James Liddell.
 Lee, Robert Ewing.
 Leggat, David Taylor.
 M'Adam, David.
 M'Adam, William.
 M'Caig, Neil.
 M'Cartney, John.
 M'Clemont, Hugh.
 M'Coll, John.
 MacCulloch, Walter Malcolm.
 Macdonald, Daisy.
 Macdonald, Elsie Fraser.
 MacDougall, Matta Park.
 M'Ewan, Catherine M'Pherson.
 Macfarlane, Ellen Catherine.
 Macfarlane, Ernest Benner Ker.
 MacGillivray, James Stewart.
 MacIntosh, James.
 M'Intosh, James.
 M'Intosh, Robert.
 Mackay, Alexander.
 M'Kelvie, William.
 Macleod, Margaret M'Eachern.
 MacMillan, Flora.
 MacPhail, Lachlan.
 MacRae, Farquhar.
 Main, James Hunter.
 Maxwell, John Hamilton.
 Merry, William Johnston.
 Millar, James.
 Millar, John.
 Miller, John (Beith).
 Moir, Alexander.
 Morison, Elizabeth Gillies.
 Morison, Winifred Dougall.
 Morton, Margaret Steel.
 Muir, William.
 Munro, John Martin.
 Murchie, Robert Welch.
 Neil, Jeanie Gemmill.
 Neilson, Ian Darroch.
 Nelson, Isabella Ure.
 Oliphant, Grace.
 Orr, John Neil.
 Orr, John Reid.
 Paterson, Alexander Russell.
 Paterson, James Dunlop.
 Percy, Dugald Ferguson.
 Pitcairn, Arthur.
 Pollock, James Macdougall.
 Reid, Thomas.
 Ritchie, James (Glasgow).
 Robertson, George Robert.
 Rogerson, Andrew William.
 Rollo, John Carter.

Ross, George Mill.
 Ross, Isabella Mackintosh.
 Russell, George.
 Russell, James Gilchrist.
 Russell, Leonard James.
 Russell, Margaret Gibson.
 Sage, Mary Dorothea.
 Scott, Thomas Thripland.
 Scott, William (Stonehouse).
 Shanks, Thomas.
 Shaw, Christina Hamilton.
 Sheridan, Robert.
 Sievwright, John Smith.
 Silver, Alexander.
 Sinclair, Annie Service.
 Smith, Jessie Murdoch.
 Sommerville, William.
 Spence, Isabella.
 Stewart, James (Lochee).
 Stewart, William Salmond.

Stirling, Violet Binning.
 Sturgeon, John.
 Summers, John.
 Talman, John.
 Telfer, Maggie.
 Templeton, Andrew.
 Thomson, Agnes Cunningham Petrie.
 Tinto, John Ferguson.
 Turner, Thomas Lindsay.
 Wallace, Arthur Stanley.
 Wallace, William.
 Watson, Christina Blair.
 Watt, Jeanie Buntin.
 Weir, Ralph Sommerville.
 White, Alexander Mill.
 White, Charles Eadie Park.
 White, William Dymock.
 White, William Kay.
 Whitecross, Williamina Chalmers.
 Young, Jane Paton.

MORAL PHILOSOPHY.

October, 1903.

Beveridge, James.
 Cameron, John (Nitshill).
 Conn, Robert.
 Farquhar, James Rainy.
 Fraser, William.
 Greer, Samuel.
 Hall, Hugh Lang.
 Hill, Ella Smith.
 Jordan, James William.
 Leitch, Donald.
 Lindsay, Hilda Oliphant.
 M'Coll, Robert.

Macharg, Ebenezer Maitland.
 Macphie, Donald.
 Macrae, Malcolm Beaton.
 Monie, Matthew Morton.
 O'Sullivan, Nora.
 Rusk, Robert Robertson (I. Hon.).
 Russell, Albert.
 Scott, John Waugh (I. Hon.).
 Shankland, William.
 Shanks, Thomas.
 Sheridan, Robert.

April, 1904.

Aitken, James Jeffrey.
 Aitken, Mary Gardner.
 Allan, Margaret Elizabeth.
 Anderson, Helen Liddell.
 Anderson, Robert.
 Armstrong, Robert Stirling.
 Baine, Daniel Gibson.
 Ballantyne, Alexander.
 Bernard, Robert Mitchell.
 Black, John Bennett.
 Blair, James Wilson.
 Boyd, Agnes.
 Brooke, Phoebe Martha.
 Burnet, Adam Wilson.
 Calderwood, Andrew Fulton.
 Cameron, John (Mull).
 Cameron, John (Tiree).
 Campbell, Catherine (Taynuilt).
 Carmichael, James.
 Carswell, Margaret Hunter.

Carter, Arthur John Jenkins.
 Clark, Humphrey.
 Crichton, Alexander Pender.
 Cuthbertson, John Montague.
 Downes, Arthur Drummond.
 Duguid, Charles.
 Duncan, Mary.
 Dunlop, James.
 Easton, Mary Rodgerson.
 Edward, Jeanie.
 Elliott, Gilbert Wilkie.
 Fairlie, James Carrick Miller.
 Farquharson, Margaret Milne M'Con-
 nachie.
 Fletcher, George.
 Forster, Marion Carrick.
 Fraser, George Sutherland.
 Glen, Thomas Stobo.
 Good, James.
 Good, John Binnie.

Grant, Robert Monteath.
 Harper, Agnes.
 Harvey, Jeanie Mitchell.
 Hepburn, William Alexander.
 Hewitt, Jeanie Allan Telfer.
 Hogg, James (Kilbirnie).
 Howard, William.
 Hubbard, Walter.
 Hunter, John Miller.
 Inglis, Robert.
 Irvine, Annie Park.
 Jockel, Catherine Henrietta.
 Johnston, Mary M'Dougall Leckie.
 Krasser, Marie Friedrike.
 Lamb, Jessie Fletcher.
 Lambie, John.
 Lamond, Janet.
 Lang, John Finlayson.
 Leitch, Renwick Hutson.
 Lindsay, Catherine.
 Lindsay, Euphemia.
 Livingstone, Daniel.
 Maben, Mary.
 M'Cracken, Winnie Jane.
 M'Creath, James Fergusson.
 Macdonald, Annie Violet.
 Macdonald, Chrissibelle.
 Macdonald, Donald.
 M'Ewen, Christina Cameron.
 M'Geachin, Margaret Allen.
 M'Gilchrist, Robina Douglas.
 M'Gill, Martha.
 Macgregor, Arthur Esdaile.
 M'Kelvie, William.
 Mackenzie, Mary Scott.
 M'Kerrow, Margaret Elizabeth.
 M'Kinlay, Robert Cromwell.
 Maclauchlan, Jenny Gray.
 M'Lean, Archibald.
 Maclean, Charles.
 Macleod, George.
 M'Murdo, James.
 Masterton, Jessie Vallance.
 Matheson, John.
 Matheson, Margaret.
 Maxton, Jessie M'Nicol Purdon.
 Menzies, James.
 Milburn, Walter.
 Millar, John.
 Milne, William Murray.
 Moore, James.

More, Margaret Battison.
 Morison, Winifred Dougall.
 Mowat, Alexander.
 Muir, Douglas Alexander George.
 Muir, William.
 Napier, Robert Hellier.
 Neil, Jeanie Gemmill.
 O'Beirne, Neil Hay.
 Oliphant, Grace.
 Orr, Andrew.
 Orr, John Neil.
 Paterson, Alexander Russell.
 Paterson, George.
 Pitcairn, Arthur.
 Rae, Samuel.
 Robertson, Annie Stewart.
 Robertson, Jenny Torrance.
 Ross, Stewart Louis Walter.
 Russell, Bessie.
 Russell, James Gilchrist.
 Sage, Mary Dorothea.
 Savage, Helen Tosh.
 Scott, Jean Young.
 Scott, William (Stonehouse).
 Simpson, Mary.
 Simpson, Robert.
 Sinclair, John.
 Smith, Francis Mackenzie.
 Smith, Isabella Robson.
 Smith, Jessie Hamilton.
 Smith, Jessie Murdoch.
 Smith, Sydney.
 Sommerville, William.
 Spens, Henry Glassford Bell.
 Stephen, James Alexander.
 Stewart, Thomas (Glasgow).
 Sturgeon, John.
 Sutherland, Thomas.
 Thomson, Agnes Cunningham Petrie.
 Thomson, Annie (Glasgow).
 Thomson, William John Johnstone.
 Trafford, Henry Martyn.
 Turner, John.
 Vincent, Clarence James.
 Watson, Christina Blair.
 Watson, John Charles.
 Weir, Justina Thomson.
 White, William Dymock.
 Whitecross, Williamina Chalmers.
 Woodburn, John Murray.
 Young, John.

POLITICAL ECONOMY.

October, 1903.

Brown, John Dunlop.
 Gourlay, James Nash.
 Leitch, Neil.

MacDonald, Patrick Angus MacGregor.
 Paterson, John Neil MacLeod.
 Shaw, Archibald.

April, 1904.

Ballantyne, James.
 Black, William Paterson.
 Cameron, John (Mull).
 Campbell, James Oswald.
 Copland, John.
 Darroch, John Alister.
 Dewar, Robert.
 Dickson, Douglas Stanley.
 Fletcher, Henry Mungles.
 Glen, Thomas Stobo.
 Graham, Seymour.
 Hill, Thomas James.
 Hogg, Gilbert Pitcairn.
 Kirk, William Grant.
 M'Cracken, Winnie Jane.

Mackenzie, Peter Murchison.
 M'Kerrow, Margaret Elizabeth.
 M'Kinlay, Robert.
 Main, David Williams.
 Neilson, Ian Darroch.
 Reid, Caroline Ross.
 Reid, John (Govanhill).
 Scott, James Edward.
 Sempill, Hugh Douglas.
 Smith, Grace Anne.
 Smith, Robert Peden.
 Stenhouse, David.
 Stewart, Thomas (Glasgow).
 Thomson, John M'Phail.
 Thomson, Robert Percy.

THEORY, HISTORY, AND ART OF EDUCATION.

October, 1903.

Brown, James Robert.
 Brown, John Dunlop.
 Craig, Willie Mackie.
 Dickie, John.
 Egans, James.
 Hogg, James (Kilbirnie).
 Hughes, John Rankin.
 Lang, John Finlayson.
 Love, James Black.

Machattie, John M'Keand.
 M'Intyre, Malcolm James.
 Maclauchlan, Jenny Gray.
 Merry, William Robert, M.A.
 Muir, William.
 Skeil, Alexander.
 Thomson, John M'Phail.
 Wilson, Christian Alice.

April, 1904.

Aitken, Mary Gardner.
 Anderson, Helen Liddell.
 Barrie, Mary Wilson.
 Biggar, Mary Campbell, M.A.
 Borland, William Dunlop.
 Brown, Agnes Cowie Steel.
 Cameron, John (Mull).
 Cameron, John (Tiree).
 Cameron, John Reid, M.A.
 Campbell, Catherine (Taynult).
 Campbell, Catherine Hood.
 Carswell, Margaret Hunter.
 Clark, Duncan Walker.
 Clark, George Frank.
 Copland, John.
 Dawson, Archibald.
 Downie, Catherine.
 Hunter, John Mercer.
 Irving, Anna Bradshaw.
 Jamieson, Margaret Brown.
 Jardine, Lizzie Macnaughton.
 Lamb, Jessie Fletcher.
 Logan, Jessie Grant Morison.
 Macdonald, Elsie Frame.
 Macdougall, Grace.
 MacDougall, Matta Park.
 M'Ewen, Christina Cameron.
 Macfarlane, Mary.

M'Gill, Martha.
 Mackinnon, Ewen.
 M'Millan, Agnes Jack.
 Main, David Williams.
 Mathieson, Mary Daisy.
 Matthew, Edward Smith.
 Mickel, Jane Nicol.
 Morton, Margaret Steel.
 Muir, Margaret Glendinning.
 Murdoch, Isabella M'Phail.
 Murray, Charles Robinson.
 Neilson, Marjory.
 Nicolson, Donald MacDonald.
 Niven, Bessie.
 O'Brien, Kathleen.
 Picken, Jenny.
 Robertson, Isabella Beatrice.
 Savage, Helen Tosh.
 Shaw, Christina Hamilton.
 Silver, Alexander.
 Smith, Thomas (Glasgow).
 Stevenson, Elizabeth Findlay.
 Stewart, Jane Boyd.
 Struthers, Lilian.
 Watt, Jeanie Bunten.
 Waugh, Margaret.
 Wyllie, Jessie.
 Yuill, Annie.

C.—SCIENCE.

MATHEMATICS.

October, 1903.

Allan, Margaret Elizabeth.	M'Donald, William Henry.
Ballantyne, Alexander.	MacDougall, Matta Park.
Biggar, Matthew.	M'Ewen, Christina Cameron.
Brown, John Rankine.	M'Ewen, Thomas.
Cameron, John (Nitshill).	Macfarlane, Ernest Benner Ker.
Campsie, William Alexander, M.A.	Macfarlane, Mary.
(I. Hon.).	Mackay, Joseph.
Clark, Humphrey.	Mackie, Janetta Inglis Wyllie.
Clark, William Weir.	M'Nabb, Christian Wallace.
Dick, James.	Millen, James White.
Douglas, Thomas Logan.	Miller, William (I. Hon.).
Dunn, Herbert.	Morison, Robert M'Kenzie (II. Hon.).
Farquharson, Margaret Milne M'Con-	Muirhead, Alfred Patman.
nachie.	Orr, John Neil.
Fenter, Susan Ethel.	Pairman, George.
Findlay, William Erskine.	Paterson, Alexander Russell.
Fletcher, George.	Paterson, William.
Forrest, Samuel Norris (I. Hon.).	Potter, William.
France, John Galbraith.	Rice, Charles Macintyre.
Fulton, William Maxwell.	Robertson, Annie Stewart.
Gordon, James Alison.	Ross, Lachlan M'Millan.
Graham, James.	Ross, Mary Bella.
Grant, Jessie Elizabeth Gollan	Sloan, Tennant.
Hamilton, Robert Cleland (I. Hon.).	Smith, Donald (Glasgow).
Helme, Charles George Gordon.	Stewart, Clementina Mitchell.
Henderson, Walter.	Stewart, William Salmond.
Houston, Jessie Spalding.	Sutherland, Thomas.
Hunter, James, M.A. (III. Hon.).	Taylor, David.
Jack, Robert (I. Hon.).	Thomson, James (Airdrie).
Jeffrey, Frank.	Towers, Thomas Dundas.
Jockel, Catherine Henrietta.	Turner, John.
King, Margaret.	Waddell, William Gillan.
King, William.	White, Charles Eadie Park.
M'Coll, Hugh Clarke.	Wylie, Robert Gilmour.
M'Coll, Robert.	

April, 1904.

Aitken, James Jeffrey.	Climie, Jenny Cumming.
Alexander, Mary.	Clubb, William Alexander.
Alexander, William Shanks.	Conn, David.
Andrew, James.	Craig, Margaret Cormack.
Archibald, Robert Richmond.	Craig, Robert.
Armstrong, Robert Stirling.	Cunnison, James.
Battersby, David Hardie.	Dalgleish, Walter Scott Lang.
Baxter, Andrew.	Dyer, Marguerite Morton.
Bell, George.	Erskine, Helen Orr.
Bell, John Cleminson.	Ferguson, Robert.
Borthwick, Jessie Dougall.	Findlay, James Wilkie.
Burnet, Adam Wilson.	Fletcher, Henry Mungles.
Burns, David.	Forsyth, Charles.
Cameron, Charles.	Gilchrist, James Albert.
Campbell, Archibald.	Good, James.
Carson, David.	Gordon, Albert William.

Gordon, Margaret.
 Gray, Joseph.
 Haddow, Elizabeth Rowat.
 Hardy, Margaret Mary.
 Harper, James.
 Hendry, James.
 Higgins, Hugh.
 Higgins, William.
 Houston, James Blair.
 Houston, Matthew Barr.
 Hunter, John Miller.
 Hunter, Samuel Fowler.
 Hyslop, Thomas.
 Isdale, David.
 Jackson, John.
 Jamieson, Margaret Brown.
 Jamieson, Samuel Robertson.
 Johnston, William George (Renton).
 Keith, James.
 Kelso, Robert John.
 Kennedy, David (Cumnock).
 Kennedy, David (Tollcross).
 Kennedy, William.
 Kirkpatrick, Isabella Cameron.
 Kirkwood, Effie Grace.
 Laird, Andrew James Liddell.
 Lamb, John.
 Lamond, Janet.
 Latta, Thomas Douglas.
 Lee, James Robert.
 Leighton, George Simpson Blair.
 Lindsay, Catherine.
 Lochhead, John Hamilton Barr.
 Logan, Walter.
 M'Beath, John.
 M'Creath, James Fergusson.
 M'Donald, Alexander John Davidson.
 M'Donald, Catherine.
 M'Dowall, Mary Henry.
 M'Gregor, John.
 M'Hattie, John.
 M'Iravey, Thomas Niven.
 M'Intosh, James.
 Mackay, James Provan (III. Hon.).
 M'Kelvie, James.
 Mackenzie, John Gladstone.
 Macleod, Margaret M'Eachern.
 MacLeod, Neil.
 M'Millan, Agnes Jack.
 M'Minn, William.
 M'Nicol, William.
 Macphail, Annie Mitchell.
 M'Whirter, Jeanie Douglas.
 Maxwell, John Hamilton.
 Meek, David Burnett.
 Millar, Agnes.
 Moir, Margaret Barr.
 More, Margaret Battison.
 Muir, Marion.
 Murdoch, Isabella M'Phail.
 Murray, George.
 Neilson, Ian Darroch.
 Notman, Thomas.
 O'Brien, Kathleen.
 Oswald, Jeanie Stewart.
 Oswald, William.
 Paterson, James Dunlop.
 Patton, Donald.
 Picken, Jenny.
 Power, Ada Joan.
 Preston, Berry.
 Quig, Gordon.
 Rae, Samuel.
 Reid, Dorothy Grainger.
 Richmond, William.
 Ritchie, James (Fauldhouse).
 Robertson, Douglas Dickson.
 Ross, Isabella Mackintosh.
 Roughead, Margaret.
 Routledge, Margaret Jardine.
 Roxburgh, Robert Whyte.
 Russell, Margaret Gibson.
 Sergeant, Samuel.
 Shanks, Eleanor Mary Barr.
 Simpson, Mary.
 Sinclair, John.
 Smellie, William Robert.
 Smith, Isabella Robson.
 Smith, Jessie Hamilton.
 Snedden, John.
 Spence, Isabella.
 Stark, William.
 Stevely, William.
 Steven, Alfred Ingram.
 Stevenson, Elizabeth Findlay.
 Stewart, Henry.
 Stewart, Jane Boyd.
 Stewart, William Wylie.
 Struthers, James.
 Struthers, James Barr.
 Struthers, Lilian.
 Sutherland, Barbara.
 Sutherland, Donald.
 Swan, John Arbuckle.
 Taylor, John William.
 Taylor, Margaret Oswald.
 Thom, Ernest Graham Young.
 White, Alexander Mill.
 Wilson, James Calvert.
 Wilson, John.
 Wright, Helen Erskine.
 Wylie, Marion Aitken.
 Yuill, Annie.

NATURAL PHILOSOPHY.

October, 1903.

Ballantyne, Alexander.	Jack, Robert (I. Hon.).
Campsie, William Alexander, M.A. (I. Hon.).	Macfarlane, Ernest Benner Ker.
Dudgeon, Peter.	M'Kechnie, Duncan.
Dunlop, Archibald Hume,	M'Laren, Martin Campbell.
Ewen, Christian.	Main, David Williams.
Fletcher, George.	Miller, William (I. Hon.).
Forrest, Samuel Norris (I. Hon.).	Morison, Robert M'Kenzie (II. Hon.).
Hamilton, Louis.	Nelson, Isabella Ure.
Hamilton, Robert Cleland (I. Hon.).	Paterson, Alexander Russell.
Howat, William.	Trafford, Henry Martyn.
Hunter, James, M.A. (III. Hon.).	Waddington, Cecilia Jane.
	Wilkie, Helen.

April, 1904.

Allan, Robert.	M'Clemon, Hugh.
Allison, Alex. Grant Kilpatrick.	M'Donald, William Henry.
Anderson, Charles Hendrie.	Mackay, James Provan (III. Hon.).
Archibald, Robert Richmond.	M'Leish, Jessie Marjorie.
Cameron, Daniel.	M'Whan, John.
Campbell, Duncan William.	Merry, Mary.
Duguid, Charles.	Monie, Matthew Morton.
Duncan, Thomas.	Morison, Elizabeth Gillies.
Dunlop, James.	Oswald, William.
Dunlop, James Kirkwood.	Paul, James.
Ferguson, William Given.	Pearson, Margaret Hunter.
Helme, Charles George Gordon.	Pollock, Malcolm.
Hendry, James.	Skelley, Robert.
Hepburn, William Alexander.	Smith, Hugh.
Hill, Ella Smith.	Steven, Alfred Ingram.
Hughes, John Rankin.	Thomson, James (Millerston).
Hunter, Thomas Downie.	Turnbull, Arthur.
Lambie, Henry.	Walker, Hector.
Lambie, John.	Whitehead, William.
Leitch, Renwick Hutson.	Williamson, James.
Littlejohn, John.	Wright, Robert James.
M'Clements, Robert Alexander.	

ASTRONOMY.

April, 1904.—M'Coll, Hugh Clarke.

CHEMISTRY.

October, 1903.

Brown, William (Paisley).	Lang, William.
Downes, Arthur Drummond.	Miller, Thomas.
Grant, Robert.	Rogerson, Andrew William.
Harrison, Rhoda Gertrude.	Smith, Hugh.
Hill, Ella Smith.	Watters, Alexander Marshall.

April, 1904.

Allison, Alex. Grant Kilpatrick.	Leitch, Renwick Hutson.
Brightman, John Henry.	M'Arthur, Neil.
Brown, James Robert.	Meek, David Burnett.
Dunlop, James Kirkwood.	Murray, Thomas David King.
Frew, James Mair.	Ross, Alexander David.
Hutchison, Andrew.	Steven, Alfred Ingram.
Lang, John Finlayson.	Stokes, George Duncan Campbell.

ZOOLOGY.

October, 1903.

Fraser, George Muir.

M'Arthur, Peter Cunningham.

April, 1904.

Downes, Arthur Drummond.

Macgregor, Murray.

Miller, Thomas.

BOTANY.

October, 1903.

Downes, Arthur Drummond.

Fraser, George Muir.

*April, 1904—Macgregor, Murray.**D.—HISTORY AND LAW.*

HISTORY.

October, 1903.

Bain, John.

Main, John (Nairn).

Ballantyne, James.

Masterton, Jessie Vallance.

Barclay, James Mathie.

Muir, William.

Baxter, Thomas.

Orr, Andrew.

Burns, Robert (Larkhall) (I. Hon.).

Paterson, John Neil MacLeod.

Dallas, Margaret.

Patience, Edward.

Dunlop, James Kirkwood.

Pitcairn, Arthur.

Fletcher, George.

Smith, Grace Anne.

Fraser, George Sutherland.

Snodgrass, John William.

Fyfe, Alexander.

Steele, John Aulay.

Lawson, Gavin.

Stewart, Clementina Mitchell.

M'Clemont, Hugh.

Towers, Thomas Dundas.

April, 1904.

Alexander, William Shanks.

Hogg, James (Uddingston).

Barclay, William (I.).

Hutchinson, Duncan Bell.

Battersby, David Hardie.

Hutton, Robert Fotheringham.

Bayne, Alexander Robert.

Inglis, Robert.

Bennett, Octavia Jane Ronald.

Insh, George Pratt.

Bernard, Robert Mitchell.

Jack, William.

Blackwood, Bruce Beveridge.

Jamieson, Samuel Robertson.

Brown, John Rankine.

Kerr, William Miller.

Burn, Jeannie.

King, William

Cameron, John (Nitshill).

Kirk, Margaret Mary.

Campbell, Archibald Angus.

Lambie, Henry.

Craig, Robert William.

Leggat, David Taylor.

Dow, William Johnstone.

Leiper, Eliza Boyd.

Finlayson, Kenneth.

M'Arthur, James.

Fulton, William Maxwell.

Macdonald, Elsie Fraser.

Gardner, Alexander.

M'Donald, William Henry.

Gordon, Albert William.

MacDougall, Matta Park.

Greenfield, Elizabeth Curle.

M'Intyre, Malcolm James.

Hall, Hugh Lang.

M'Kinlay, Robert.

Hamilton, Robert Russell.

M'Kinnon, Donald.

Herbertson, George Richmond.

M'Kinnon, Malcolm.

Maclean, Charles.
 MacMillan, Elizabeth.
 MacMillan, Flora.
 MacPhail, Lachlan.
 Milburn, Walter.
 Miller, Campbell Lamont.
 Miller, Moses.
 Moir, Alexander,
 Morison, Winifred Dougall.
 Morrison, James.
 Munro, John Martin.
 Murray, George.
 O'Beirne, Andrew Thomson.
 Rae, Samuel.
 Ritchie, James (Campbeltown).
 Roxburgh, Robert Whyte.
 Scott, Thomas Thripland.

Sergeant, Samuel.
 Shankland, William.
 Sheridan, Robert.
 Sievwright, John Smith.
 Skeil, Alexander.
 Smith, David Bromfield.
 Spens, Henry Glassford Bell.
 Strathie, David Norman.
 Thomson, James (Airdrie).
 Tulloch, James Allan.
 Waddell, Mary Campbell.
 Walker, John Barnhill.
 Watson, Christina Blair.
 Watson, Donald Bannatyne.
 White, William Dymock.
 Wilson, Andrew.
 Wilson, James Lauder.

CONSTITUTIONAL LAW AND HISTORY.

October, 1903.

Kerr, William (Beith).

Lochhead, John Hamilton Barr.

April, 1904.

Anderson, Helen Liddell.
 Crichton, Alexander Pender.
 Deans, William Smellie.
 Grant, William.
 Hubbard, Walter.
 Love, James Black.
 M'Connachie, Annie Wallace.
 M'Intosh, Robert Scott.
 M'Kinney, Alexander Doctor.
 MacLeod, Neil.
 Main, John (Nairn).

Orr, Andrew.
 Pairman, George.
 Paterson, George.
 Patrick, Samuel Barr.
 Pennycook, George.
 Rankin, Adam Aird.
 Ross, Henry.
 Simpson, Robert.
 Smith, Grace Anne.
 Smith, Robert Peden.
 Tulloch, Robert.

ROMAN LAW.

October, 1903.—M'Bain, Annie.

April, 1904.

Anderson, Euphemia Logan Cairnie.
 Bowie, John.
 Brayne, Albert Frederic Lucas.
 Clark, Humphrey.
 Currie, Mary Darroch.
 Dickie, Robert.
 Egans, James.
 Findlay, William Erskine.
 Graham, James.
 Grant, William.
 Hutton, Frederick Robert Hughes.
 Jackson, Robert.

Levine, Jacob.
 M'Connachie, John Allan.
 M'Elwain, James.
 MacGregor, James Campbell.
 Miller, James.
 Moore, James.
 Niven, John.
 Orr, Andrew.
 Patrick, Samuel Barr.
 Russell, Albert.
 Smith, Thomas (Glasgow).
 Thomson, William John Johnstone.

PRELIMINARY EXAMINATION FOR DEGREES IN ARTS AND SCIENCE.

The following passed in the subjects indicated (L., Lower; I., Intermediate; H., Higher):—

October, 1903.

Adams, Alexander M'Clymont (English, L. Math.).
 Addison, James (French).
 Aitken, James Jeffrey (L. Latin).
 Aitkenhead, James (Dynamics).
 Allan, James (English, H. Latin).
 Allan, James Craig (L. Math.).
 Allan, John Angus (I. Math., Dynamics).
 Anderson, Helen Liddell (H. Latin).
 Anderson, Margaret (L. Latin, French).
 Anderson, Matthew Graham (English, H. Math., L. Latin, Dynamics).
 Anderson, William (English, Dynamics).
 Archibald, Robert Richmond (H. Latin).
 Armour, Thomas White (L. Math., L. Latin).
 Armstrong, Maud Maria (I. Math., L. Latin).
 Arthur, Marion Gilmour (I. Math., L. Latin).
 Aust, Frank (English).
 Bailey, Florence Winifred (L. Math., L. Latin, French).
 Baine, Daniel Gibson (H. Math., L. Latin, French).
 Baird, James (Cumnock) (H. Math).
 Bannerman, William Donald (L. Latin).
 Barbour, William (L. Latin).
 Barclay, Charles Fordyce (H. Math., Dynamics).
 Barrie, Annie (H. Math.).
 Barrie, Grace (I. Math.).
 Beaton, Alexander (L. Greek).
 Beaumont, Thomas (Italian).
 Begg, Annie (French).
 Begg, George (I. Math.).
 Bell, Jane Elliot (English).
 Bell, John (L. Latin).
 Beveridge, James (L. Latin).
 Bilsland, James Alexander (I. Math., French).
 Bisset, Ann (H. Latin).
 Black, Allan Maclean (English, H. Math., L. Latin, French).
 Black, James (English, H. Latin, French).
 Blair, Henry (H. Math.).
 Blair, Margaret (I. Math).
 Bowie, Walter James Hamilton (H. Math).
 Boyd, Andrew (H. Latin, H. Greek, French).
 Boyd, James Rae (L. Latin, Dynamics).
 Boyd, John Smith (English, H. Latin).
 Boyle, Robert (English, I. Math., Dynamics).
 Bremner, Thomas Yool (English, H. Math, H. Latin, Dynamics).
 Brightman, John Henry (L. Latin).
 Brodie, John (Dynamics).
 Brown, Archibald Campbell (H. Math.).
 Brown, Catherine M'Lean (English, L. Latin).
 Brown, David Macculloch (English, L. Latin).
 Brown, Isa Turner (I. Math., L. Latin).

Brown, John (Girvan) (English).
 Brown, John (Langside) (H. Math, H. Latin).
 Browning, Archibald (H. Greek).
 Brownlie, John (L. Latin).
 Bruce, Robina Robertson (I. Math., L. Latin).
 Buchanan, James Robertson (Arabic).
 Burns, David (H. Latin).
 Cameron, Charles (H. Greek).
 Campbell, Archibald (H. Math).
 Campbell, Barbara Gibb (I. Math.).
 Campbell, Catherine Hood (L. Latin, French).
 Campbell, Duncan William (L. Latin).
 Carmichael, Isabella (H. Math., L. Latin).
 Carrie, George Millar (H. Math.).
 Christie, Hilda Duncan (L. Latin).
 Christie, James Reid (H. Latin, L. Greek).
 Clark, Andrew Tudhope (English).
 Clark, Donald James (L. Latin, French).
 Clark, Stuart Tulk Ellice (French).
 Clendinning, Thomas Henry (English, I. Math., French).
 Clinie, Henry Richmond (English, H. Math., L. Latin, Dynamics).
 Clubb, William Alexander (English, L. Latin, French).
 Collingwood, John Crawford (L. Math., H. Latin).
 Combe, Mary Main (H. Math.).
 Congalton, William David (I. Math., H. Latin, L. Greek).
 Conley, Catherine Boyd (I. Math., H. Latin).
 Conley, Neil (Arabic).
 Connell, Kenneth M'Kenzie (I. Math., L. Latin, French).
 Cooper, William Stirton (I. Math., L. Latin).
 Cornock, Robert Barr (L. Latin).
 Corrie, Richard Clayton (I. Math.).
 Cowie, Margaret Rennie (L. Math.).
 Cowie, Peter Buchan Watson (H. Latin, L. Greek).
 Craig, Andrew (English).
 Craig, Catherine (H. Math.).
 Craig, Margaret Cormack (H. Math.).
 Craig, Robert William (H. Latin).
 Cram, Annie Gertrude (H. Latin).
 Cramond, John (L. Latin).
 Crockatt, William Campbell (H. Math.).
 Crombie, Ebenezer (I. Math., H. Latin).
 Cunningham, Margaret Murray (English, H. Math., L. Latin, French).
 Cunnison, James (H. Greek).
 Currie, Mary Darroch (H. Latin).
 Currie, Neil Maclean (I. Math., L. Latin).
 Daly, Robert (Dynamics).
 Dalzell, William Wallace Burnyeat (L. Math., L. Latin).
 Darroch, John Alister (English, I. Math., L. Latin, Dynamics).
 Davidson, Alfred (Dynamics).
 Dickie, James (I. Math., Dynamics).
 Dodds, James Smith (L. Latin).
 Donald, Gavin M'Culloch (L. Latin).
 Donald, Jane Baird (English, H. Math., French).
 Downie, David (H. Math., H. Latin).
 Drummond, William (English, Dynamics).
 Duncan, Mary (H. Latin).

Dymock, John Dobie Halliday (English, French, Dynamics).
Espin, James (L. Math.).
Ewan, John Lyon (H. Math., German).
Fairlie, James Carrick Miller (Hebrew, Arabic).
Farquharson, Jeanie Henderson (L. Latin).
Fenter, Susan Ethel (L. Latin).
Ferguson, Robert (H. Latin).
Findlay, James Wilkie (H. Latin, L. Greek).
Forman, Charles Gibson (Dynamics).
Frame, Gavin (Dynamics).
Fraser, Catherine Maud (English, L. Math.).
Fraser, Isabella Simpson (H. Latin).
Fraser, John (H. Math., Dynamics).
Fraser, Kate M'Millan (H. Latin).
Frew, Elizabeth (L. Latin).
Gallagher, Mary Theresa (H. Latin).
Garvie, William (I. Math.).
Gemmell, James Craigen (H. Math., L. Latin).
George, Flora Graham (I. Math., H. Latin).
Gibson, Agnes Georgiana (H. Math.).
Gilbert, William John (I. Math.).
Gilchrist, Thomas (English).
Gillespie, Floris Mary (L. Latin).
Gillespie, John (I. Math.).
Gillies, Norman M'Leod (I. Math.).
Gilmour, Alexander (L. Math., L. Latin, L. Greek).
Gilmour, James (L. Latin).
Gilmour, Matthew (I. Math.).
Good, James (L. Latin).
Gordon, Albert William (English, French).
Gordon, James Bryce (L. Greek).
Gracie, Helen Letham (French).
Graham, John (H. Greek).
Grant, Mabel (L. Latin).
Grant, William (L. Latin).
Gray, Annie (Dynamics).
Gray, Joseph (H. Latin, H. Greek).
Gray, Margaret Muriel (English, L. Latin, French).
Gray, Stewart Dickson (English, L. Math., L. Latin).
Grier, James M'Farlane (French).
Gueritz, Elton Lawrence (English, I. Math., H. Latin, H. Greek).
Halley, Matthew White (H. Math., French, Dynamics).
Hamilton, Archibald (French).
Hamilton, Percy Douglas (English, H. Math., L. Latin).
Hamilton, Robert Russell (L. Latin).
Hamilton, William (H. Latin).
Hamilton, William Smith (Dynamics).
Harcus, Andrew Drummond (English, H. Math., H. Latin, L. Greek).
Harper, Alexander Bain (H. Greek).
Harvie, George (English, H. Math., L. Latin, French).
Hattrick, John Montgomerie (I. Math., German).
Henderson, Dora Selkirk (L. Latin).
Henderson, Minnie Inglis (H. Math.).
Hepburn, Margaret (H. Math.).
Hill, Edith Bertha (H. Latin).
Hinkins, John (H. Latin).

- Houston, Matthew Barr (English, H. Math., H. Latin, French).
 Hunter, Mary (I. Math.).
 Hunter, Samuel Fowler (English, H. Math., L. Latin, H. Greek).
 Hutton, Mary Louise (L. Latin).
 Hutton, Robert Fotheringham (L. Latin).
 Inglis, Helen (H. Latin).
 Irving, Anna Bradshaw (L. Latin).
 Isdale, David (L. Latin).
 Iwane, Tomochika (I. Math.).
 Jack, Agnes Allan (I. Math., French).
 Jackson, Isabella Mary (English, L. Latin, French).
 Jackson, John (L. Latin).
 Jenkins, Robert (I. Math.).
 Johnston, James (English).
 Johnston, Robert Buchanan (L. Latin).
 Kay, Cathcart (L. Math.).
 Keane, James (L. Latin, Dynamics).
 Keith, James (H. Greek).
 Kennedy, David (H. Latin).
 Kennedy, William (L. Latin).
 Kerr, Dugald Macfie (H. Latin).
 Kinloch, Andrew Duncan (Dynamics).
 Kinniburgh, John Allan (L. Math.).
 Kirkpatrick, Isabella Cameron (H. Math., French).
 Knowles, Isobel Alexander (H. Latin).
 Laird, Andrew James Liddell (H. Math.).
 Lamb, Jessie Fletcher (I. Math.).
 Lamb, John (H. Latin, L. Greek).
 Lamond, Janet (L. Latin).
 Lang, Mary Wilson (L. Latin).
 Lang, Walter (L. Latin, French).
 Latta, Janet Stevenson Andrew (L. Latin, French).
 Latta, Mary Muir (L. Latin).
 Latta, Thomas Douglas (H. Latin).
 Lawson, Mary Cummings (H. Math.).
 Leckie, John (English, H. Math., L. Latin, French).
 Leishman, William (L. Greek).
 Leitch, Alexander (I. Math.).
 Leitch, Donald (L. Latin).
 Leitch, Henry (I. Math.).
 Lewis, John (I. Math.).
 Lindsay, Alexander (English).
 Logan, Walter (H. Latin).
 Logie, James Paton (Spanish).
 Lorente-Martinez, Mariano Joaquin (English, H. Math., French, Spanish).
 Lyons, James Robert (French).
 M'Arthur, Dugald (I. Math., L. Latin).
 M'Beath, John (H. Latin).
 M'Bride, Mary Robertson (H. Latin).
 M'Caskill, Neil (I. Math.).
 M'Coll, John (H. Latin).
 Macdonald, Alexander (English).
 M'Donald, Alexander John Davidson (Dynamics).
 Macdonald, Daisy (I. Math.).
 Macdonald, John Finlay (English, I. Math.).

Macdonald, Margaret (I. Math.).
 M'Donald, Roderick Alexander (L. Latin).
 M'Dowall, Mary Henry (H. Math.).
 M'Ewan, Catherine M'Pherson (H. Latin).
 MacEwan, Mary Smith (English).
 M'Farlane, Jeannette (I. Math.).
 Macfarlane, John (L. Latin).
 M'Farlane, Margaret Conchie Raphael (H. Latin).
 M'Geachin, Margaret Allen (L. Latin).
 M'Gill, Mary Watson (H. Latin).
 Macgill, William Duncanson (Hebrew).
 M'Glashan, Thomas (I. Math.).
 M'Gowan, Jeanie (H. Latin).
 M'Gown, Janet Gilmour (L. Latin).
 M'Gown, Robert (L. Greek).
 M'Gregor, Joseph (L. Latin).
 M'Intosh, James (H. Math.).
 MacIntosh, James (L. Latin).
 M'Intosh, Robert (H. Math.).
 M'Intosh, Robert Scott (L. Latin).
 M'Intyre, Malcolm James (L. Latin).
 Mackay, Alexander (I. Math.).
 Mackay, Grace Christina (H. Latin).
 Mackay, Kenneth (L. Latin).
 MacKeith, Gracie Smith Sloan (I. Math., H. Latin).
 Mackenzie, Colin Young (H. Math., L. Latin).
 Mackenzie, John Gladstone (L. Latin).
 M'Killop, Helen (L. Latin).
 M'Kinney, Alexander Doctor (L. Latin).
 Mackinnon, Anna Cameron (L. Math.).
 M'Kinnon, Donald (English, H. Math.).
 Mackintosh, Charles Calder (English, I. Math.).
 M'Kirdie, Andrew M'Bride (L. Latin).
 MacLean, Alexander (I. Math., L. Greek).
 Maclean, Benjamin (English, H. Latin, H. Greek).
 Maclean, John (Pollokshaws) (H. Latin).
 Maclean, William Archibald (English, I. Math., H. Latin, H. Greek).
 M'Leish, Jessie Marjorie (H. Latin).
 M'Millan, Agnes Jack (L. Latin).
 MacMillan, Flora (H. Math.).
 M'Millan, Robert Kerr (English, L. Latin).
 M'Millan, William Hutchison (L. Latin).
 M'Minn, John Huie (H. Math., French, Dynamics).
 MacMorland, James (French).
 M'Murdo, James (H. Latin).
 M'Nab, David Bryce (H. Latin, Dynamics).
 Macnab, Samuel (English, I. Math., L. Latin).
 M'Neil, William Arnott (I. Math., Dynamics).
 M'Ouat, Mary Campbell Wyllie (H. Math.).
 MacPherson, John (English).
 M'Quarrie, John (I. Math.).
 Macready Margaret Ferguson (H. Latin).
 M'Vittie, Thomas (H. Latin).
 Main, James Hunter (H. Latin).
 Main, John (Nairn) (I. Math.).
 Martin, Annie (L. Math., L. Latin).

Masterton, Jessie Vallance (L. Greek).
Masterton, William (H. Math., H. Latin).
Matheson, John (L. Latin).
Mathie, John Park (H. Math.).
Maxwell, James (L. Latin).
Maxwell, Robert Alexander Grant (H. Math., French).
Meek, David Burnett (L. Latin).
Millar, Alexander (L. Latin).
Miller, John (Motherwell) (H. Latin).
Miller, Moses (H. Latin).
Miller, William (L. Latin).
Milne, William Murray (H. Latin).
Mitchell, James Hendrie (H. Latin).
More, Margaret Battison (L. Latin).
Morgan, Irving Moffat (I. Math.).
Morrison, Albert (English).
Morrison, Grace (H. Latin).
Morrison, Hugh (French).
Morrison, John Coutts (L. Latin).
Morrison, Murdo (L. Latin).
Muir, Marion (H. Latin).
Munro, Margaret (H. Latin).
Murdoch, Isabella M'Phail (H. Math., L. Latin).
Murdoch, William Anderson (H. Greek).
Murray, Alexander (Stornoway) (L. Greek).
Murray, George (L. Greek).
Murray, Helen Downie (H. Latin).
Murray, Mary Weir (L. Latin).
Neilson, Thomas Haig (I. Math.).
Nisbet, William (H. Latin).
Norwell, Robert Nicol (French).
O'Brien, Kathleen (H. Math.).
Orr, James Barbour (L. Math.).
Orr, Robert Alexander (I. Math., H. Greek).
O'Sullivan, Nora (H. Latin).
Oswald, Helen Johnston (L. Math., L. Latin).
Oswald, Jeanie Stewart (H. Latin).
Paterson, Alexander Russell (L. Latin).
Paterson, Hector Donald M'Leod (L. Math., L. Latin).
Patterson, David Faraday (I. Math., Dynamics).
Patton, Donald (L. Latin).
Pennycook, George (L. Latin).
Phillips, James (L. Latin).
Phillips, Philip Emile (Dynamics).
Picken, Jenny Johnston (L. Latin).
Power, Ada Joan (H. Latin).
Powicke, William Alfred (L. Math., L. Latin).
Ramsay, Agnes (L. Latin).
Ramsay, James Alexander (I. Math., L. Latin, French).
Rankin, Jessie Deans (I. Math., L. Latin).
Rankine, John (H. Latin).
Reid, William (H. Math.).
Reid, William Kirkpatrick (L. Latin).
Ritchie, Alexander Sutherland (English. H. Math., Dynamics).
Ritchie James (Fauldhouse) (H. Latin).
Robertson, Douglas Dickson (H. Greek).

Robertson, James (L. Latin).
 Robertson, Jessie Christina (L. Latin).
 Robertson, John (L. Latin).
 Rollo, Wilhelmina Margaret (English, L. Latin).
 Ross, Agnes (L. Latin).
 Ross, Donald (I. Math.).
 Ross, Isabella Mackintosh (H. Latin).
 Ross, Mary Bella (H. Latin).
 Routledge, Margaret Jardine (H. Latin).
 Roxburgh, Robert Whyte (English, H. Math., H. Latin, H. Greek, French).
 Russell, John (English, I. Math., French).
 Russell, Margaret Gibson (L. Latin).
 Russell, Maud (L. Latin).
 Russell, Thomas (L. Latin).
 Saunders, Herbert Washington (English, L. Math.).
 Scott, Georgina (I. Math.).
 Scott, Neil Campbell (L. Latin).
 Scott, Thomas Thripland (L. Latin).
 Sewell, William Alexander (H. Math., H. Latin).
 Sexton, George Alexander (Dynamics).
 Shanks, Thomas (L. Latin).
 Shaw, Christina Hamilton (H. Math.).
 Shearer, George (English, H. Math.).
 Shields, Robert (L. Math.).
 Sinclair, Annie Macadam (H. Math.).
 Sinclair, Annie Service (H. Math., H. Latin).
 Smellie, William Robert (L. Latin).
 Smith, Andrew Robertson (English).
 Smith, David Bromfield (H. Math. H. Latin).
 Smith, Edward Archibald (English, H. Math., H. Latin, L. Greek).
 Smith, Eleanor (English, French).
 Smith, Isabella Robson (I. Math.).
 Smith, James Jackson (English, L. Latin).
 Smith, John Hunter (English).
 Smith, Robert Peden (I. Math.).
 Smith, Sydney (I. Math.).
 Smith, Thomas (H. Latin).
 Smith, William James (L. Greek).
 Sneddon, Robert (French).
 Sommerville, Thomas (H. Latin).
 Spence, Annie Watson (I. Math., L. Latin).
 Spence, Isabella (H. Latin).
 Sprunt, Annie Crichton (H. Latin).
 Sprunt, Janet (I. Math., L. Latin).
 Stalker, Donald (English, French).
 Steele, John Aulay (H. Latin).
 Steven, Alfred Ingram (L. Latin, German).
 Stewart, Agnes (I. Math., L. Latin).
 Stewart, Andrew (H. Math.).
 Stewart, George (H. Latin).
 Stewart, Henry (English, H. Math., L. Latin, French).
 Stewart, William Wylie (L. Greek).
 Stirling, Violet Binning (I. Math.).
 Strachan, Isabella Smith (H. Math.).
 Strang, Elspet Patricia Campbell (English).

Strathie, David Norman (H. Greek).
 Stuart, Mary Isabelle Moody (German).
 Summers, John (H. Math).
 Sutherland, Donald (H. Latin).
 Taylor, Margaret Oswald (H. Latin).
 Taylor, William Duncan (H. Latin, L. Greek).
 Taylor, William Galbraith (I. Math., L. Latin).
 Telfer, Stephen Veitch (I. Math., Dynamics).
 Thomson, Helen Buchanan (English, L. Math.).
 Thomson, James (Airdrie) (H. Latin).
 Thomson, John Albert (H. Math., Dynamics).
 Thomson, William Henderson (English, L. Math., H. Latin).
 Tulloch, James Allan (L. Latin).
 Tulloch, Robert (H. Latin).
 Turner, John Anderson (H. Latin).
 Turner, Thomas Brown (L. Latin).
 Waddell, Mary Campbell (L. Math., H. Latin).
 Walker, Elizabeth Douglas (I. Math., French).
 Walker, James Mitchell (H. Latin).
 Walker, Stuart M'Ilwraith (French).
 Walkinshaw, Agnes Helen (L. Latin).
 Wallace, Andrew Moray (H. Math.).
 Walls, Joseph Young, (English, H. Math., Dynamics).
 Walton, Edgar Severs (English, H. Math).
 Warrand, William Connal (Dynamics).
 Weir, James George (French).
 Weir, William (English).
 Wells, Charles Bradley (Spanish).
 Westwater, James (H. Latin).
 Whitson, Edith Mary (L. Math., H. Latin).
 Whytock, James (L. Latin).
 Williams, David Denis (I. Math., Dynamics).
 Williamson, Annie Drummond (H. Math.).
 Williamson, Edward Thomson (L. Latin).
 Williamson, Elizabeth Maclean (L. Latin).
 Wilson, Andrew (L. Latin).
 Wilson, Elizabeth Black (H. Math.).
 Wilson, James Calvert (L. Latin).
 Wilson, John (H. Greek).
 Wilson, Robert Weir (L. Latin).
 Wood, Isabella Wishart (I. Math.).
 Wood, William Joseph (French).
 Wright, Alice Logan (H. Math.).
 Wright, John (L. Latin).
 Yates, Sophie (English, L. Latin).
 Young, Annie Muirhead (I. Math., H. Latin).
 Young, George Alexander William (I. Math.).
 Young, John Mitchell (H. Math., Dynamics).
 Yuille, William (I. Math.).

April, 1904.

Adams, Alexander M'Clymont (English, L. Math., H. Latin).
 Addison, James (L. Latin, French).
 Aitken, Helen Johnston (H. Math., L. Latin).
 Alexander, Jeannie (L. Latin).

Alexander, Mabel Edith (H. Math.).
 Alexander, Robert Glassford (English, H. Latin).
 Allan, James Craig (L. Latin).
 Allan, Robert (H. Math., L. Latin, French).
 Anderson, Elizabeth Ramsay (I. Math.).
 Anderson, John (English, I. Math., L. Latin, French).
 Anderson, Margaret (H. Math., H. Latin).
 Andrew, Thomas Adams (French).
 Armour, John Stuart (I. Math., H. Latin).
 Armour, Thomas White (I. Math., H. Latin, L. Greek).
 Arthur, Ann (I. Math.).
 Arthur, David George (English).
 Arthur, Marion Gilmour (H. Math., H. Latin).
 Aust, Frank (H. Math., French, Dynamics).
 Baird, James (Cumnock) (L. Latin).
 Baird, Jean Simpson (L. Math., L. Latin).
 Baird, Matthew Urie (English, L. Latin, Dynamics).
 Ballantyne, John Charles (English, L. Math., L. Latin).
 Barclay, George (H. Latin, H. Greek).
 Barclay, Jessie (French, German).
 Barclay, Margaret (French).
 Barr, James (English, French).
 Barr, John MacLeish (L. Latin).
 Beaton, Alexander (H. Greek).
 Begg, Annie (English, French).
 Begg, George (English, H. Math., French).
 Bell, Grizel Marion (English).
 Bilsland, James Alexander (H. Math., French).
 Bingham, Letitia (I. Math.).
 Black, Janet (I. Math.).
 Bonn, Carl Robert Hugo Menni (Dynamics).
 Bost, George William (French).
 Boyd, James Rae (I. Math., L. Latin).
 Boyd, Jane Dunsmuir (H. Latin, H. Greek, French).
 Bristow, Thomas Ewart Hamer (I. Math., French, Dynamics).
 Brough, Patrick (H. Math., Dynamics).
 Brown, Annie Dalgleish (I. Math., L. Latin).
 Brown, Catherine M'Lean (I. Math.).
 Brown, David (English).
 Brown, Isa Turner (H. Latin).
 Brown, James Rossie (H. Math., H. Latin, L. Greek).
 Brown, John Robertson (English, L. Latin).
 Brown, Robert Archibald (L. Latin, L. Greek).
 Brown, Robert Dunlop (I. Math., Dynamics).
 Brown, Robert Mackie (I. Math., Dynamics).
 Brown, William (H. Latin, French).
 Bruce, Johan Blair (I. Math.).
 Bruce, Robert (English, French).
 Bruce, Robina Robertson (H. Math.).
 Bryce, William (I. Math., L. Latin).
 Bryson, Mary Anderson (L. Latin).
 Burns, James Rattray (L. Latin).
 Burns, Lillias Catherine (English).
 Caldwell, Peter Scott (I. Math., Dynamics).
 Campbell, Agnes Russell (French, German).
 Campbell, Alexander MacGilp (English, French).

- Campbell, Donald (English).
 Campbell, George (II.) (H. Latin).
 Carlyle, Mary Miller (I. Math., L. Latin).
 Carrie, George Millar (L. Latin, Dynamics).
 Christie, Hilda Duncan (L. Latin).
 Clark, Donald James (H. Latin).
 Clark, Grace Sharpe (English).
 Clark, Stuart Tulk Ellice (English, I. Math., Dynamics).
 Clendinning, Thomas Henry (H. Math.).
 Clinkskill, Dora Mary (English, L. Math.).
 Cochrane, George, (H. Math., H. Latin, French).
 Cockburn, Christina Butchart (French).
 Cockburn, Robert (L. Latin, German).
 Condie, Jane M'Intyre (H. Latin).
 Connell, Kenneth M'Kenzie, (L. Latin, French).
 Cooper, Margaret Carrick (English, French).
 Cooper, William Stirton (L. Latin).
 Cornock, Robert Barr (H. Latin).
 Cosgrove, Hugh Milne (English, L. Latin).
 Cosh, John Bruce (L. Latin).
 Cramond, John (English, L. Latin).
 Culbert, Jane Menzies (L. Latin).
 Currie, Neil Maclean (H. Math., L. Latin).
 Curry, Ronald Fuller (L. Math., German).
 Cuthbert, Robert John (English, L. Latin, French).
 Dalzell, William Wallace Burnyeat (English, L. Math., L. Latin, L. Greek).
 Davidson, James Allan (H. Latin).
 Davie, Mary Morgan (H. Latin).
 Davies, John (English, L. Latin).
 Dawson, William (French).
 Dewar, Phebe Rutherford, (I. Math.).
 Dick, Marion Young (L. Latin).
 Dick, Robert Brownlee (H. Math.).
 Dickie, John Gray (H. Math.).
 Donald, Jane Baird (L. Latin).
 Dow, William Johnstone (L. Latin).
 Dudgeon, Peter (L. Latin).
 Dunne, Margaret (L. Latin).
 Fairley, Elizabeth (H. Math.).
 Fairweather, Harold (H. Math.).
 Falconer, Peter John Bisset (English, H. Latin).
 Falconer, William Alex. Anderson (H. Math.).
 Farquharson, Jeanie Henderson (H. Math., L. Latin).
 Ferrie, William Winks (English, H. Math., H. Latin).
 Field, Catharina Frances Struthers (L. Math., French).
 Findlay, Alexander (H. Latin).
 Finlayson, Alexander (French).
 Finnie, Andrew (English, L. Latin).
 Fleming, James Brown Montgomerie (English, L. Latin, L. Greek).
 Forrest, William Vincent (L. Latin, L. Greek, Dynamics).
 Forsyth, Andrew (H. Math., H. Latin, French).
 Forsyth, Charles (L. Greek).
 Forsyth, Graham (English, H. Math.).
 Fotheringham, Andrew (English, H. Math., Dynamics).
 Frame, Gavin Stuart (H. Math., French).

- Fraser, Catherine Maud (L. Latin).
 Frazer, Bessie (French).
 Frew, Elizabeth (I. Math., L. Latin).
 Fulton, Minnie Sym (I. Math., L. Latin, French).
 Fyfe, Robert (English).
 Galt, John (H. Math., H. Latin).
 Garden, Jane Proctor (English).
 Gardner, Robert Harrington (H. Math., Dynamics).
 Gardner, William (I. Math., L. Latin, H. Greek).
 Gemmell, James Craigen (English, L. Latin).
 Gibb, Richard (English).
 Gilbert, William John (I. Math., L. Greek).
 Gilchrist, Thomas (H. Latin).
 Gilmour, Alexander (English, H. Latin).
 Goble, Wallace (I. Math., L. Latin, French).
 Grant, Jane Dallas (I. Math., L. Latin).
 Grant, Mabel (L. Math., H. Latin).
 Gray, George (I. Math., French).
 Gray, Margaret Stuart (English).
 Gray, Stewart Dickson (L. Latin, L. Greek).
 Green, Alice (H. Math., L. Latin).
 Gunn, Duncan M'Callum (English, L. Latin).
 Haddow, Alexander Harper (English).
 Hamilton, Alexander Crawford (I. Math., French).
 Hamilton, Archibald (H. Math., L. Latin).
 Hamilton, Eva Clotworthy (L. Latin).
 Hamilton, Jessie Small (L. Math.).
 Hamilton, Louis (H. Latin).
 Hamilton, Mary Maclaren (L. Latin).
 Hamilton, Percy Douglas (L. Latin).
 Hamilton, Robert Russell (H. Latin).
 Hamilton, Thomas (English, L. Latin).
 Hannah, Walter John (I. Math.).
 Hardie, Joseph (English, I. Math.).
 Hardie, William Birrell (French).
 Harley, Mary (English, L. Latin).
 Harper, Elizabeth Jane (English, French).
 Harrison, Rhoda Gertrude (German).
 Hart, John Alexander Morrison (I. Math., H. Latin).
 Harvey, John Craig (English).
 Hattrick, John Montgomerie (H. Math., German).
 Hayworth, Arthur (L. Latin).
 Henderson, Dora Selkirk (H. Math., H. Latin).
 Henderson, Eliza Bella (I. Math.).
 Hendry, Thomas (I. Math., L. Latin).
 Hindmarsh, Margaret (I. Math., L. Latin).
 Hogg, Patrick Mackintosh (H. Math., Dynamics).
 Horne, David Henry Laing (English).
 Houston, Robert Campbell (I. Math., Dynamics).
 Houstoun, Mary Paterson (H. Math., H. Latin).
 Hunter, Dorothy Ellen (English, German).
 Hunter, Mary (H. Math., H. Latin).
 Hunter, Mary Violet (German).
 Hunton, Frederica Houghton (English).
 Hutcheon, John (English, L. Math., L. Latin, L. Greek).
 Hutchinson, Ethelreda (H. Math., H. Latin).

Hutchison, Madge Jane (English).
Hutton, Mary Louise (I. Math., L. Latin).
Inglis, Robert (H. Latin).
Irvine, David Alexander (English, L. Math.).
Iwane, Tomochika (English, H. Math.).
Jack, Agnes Allan (I. Math.).
Jack, Hugh (French, Dynamics).
Jamieson, James (L. Latin, French).
Johnston, Robert Buchanan (L. Latin).
Keane, Albert Graham (I. Math., L. Latin).
Keane, James (English, I. Math.).
Kellie, Janet Frew (H. Latin).
Kemp, David Gow (I. Math.).
Kennedy, William (H. Latin).
Kerr, Alexander (I. Math., L. Latin).
Kerr, John Alexander (French).
Kerr, William John (L. Latin).
King, Anna Mary (H. Math.).
Kinloch, John Parlane (English, I. Math., L. Latin, French).
Kinloch, Robert Parlane (English, L. Latin, French).
Kirkland, James (H. Latin, French, Dynamics).
Knox, Jane Arbutnot (H. Math.).
Krasser, Ida Eugenie (I. Math., H. Latin).
Latta, Janet Stevenson Andrew (L. Latin).
Latta, Mary Muir (L. Latin).
Law, Jessie (I. Math., L. Latin).
Leckie, John (L. Latin).
Lees, Kate Muir (L. Latin, French).
Lees, William (L. Latin).
Leggat, Donald (I. Math., H. Latin).
Leiper, Eliza Boyd (L. Latin).
Leitch, Donald (L. Latin).
Liggat, James (English).
Lindsay, Alexander (I. Math., L. Latin).
Linn, Robert (H. Latin).
Linton, John (English, I. Math., L. Latin).
Lorente-Martinez, Joaquin Alejo (French, Spanish).
M'Arthur, Dugald (H. Math., H. Latin).
MacArthur, Mary (English).
M'Bain, Charles Whitecross (H. Math., L. Latin, French).
M'Bain, Elspeth Whyte (L. Latin).
M'Callum, Miss Nicholas Stewart (L. Latin).
M'Cracken, Alexander (I. Math., L. Latin, Dynamics).
M'Cracken, Kate Campbell (H. Math., L. Latin, German).
M'Creadie, Alexander (English, I. Math., L. Latin).
M'Culloch, Mary Slessor (H. Math.).
M'Cusker, Gertrude (I. Math., French).
Macdonald, Allan (English, L. Math., H. Latin, L. Greek).
Macdonald, John (L. Latin).
Macdonald, John Finlay (English, I. Math.).
M'Donald Roderick Alexander (L. Latin).
MacEwan, Mary Smith (English, French).
M'Fadyen, John Craig (L. Math.).
Macfadzean, Agnes Murray (English).
M'Farlane, James (H. Math.).
M'Farlane, Margaret Anderson King (I. Math.).

- M'Garva, Grace (I. Math., H. Latin, French).
 M'Geachin, Margaret Allen (L. Latin).
 M'Gill, Margaret (H. Latin).
 M'Gown, Janet Gilnour (L. Latin).
 M'Gown, Kate Laura (I. Math., H. Latin).
 M'Gregor, Lily Martin (German).
 Macgregor, Margaret Douglas (I. Math.).
 M'Iloy, Elizabeth Rankin (English, French).
 Macintosh, Catherine (L. Latin).
 M'Intyre, Henrietta (English, L. Math.).
 M'Intyre, Malcolm James (L. Latin).
 Mackay, Alexander (English, L. Latin).
 Mackeith, Donald William (English, I. Math.).
 Mackenzie, Alexander (I. Math., L. Latin).
 M'Killop, John (L. Latin).
 Mackinnon, Anna Cameron (H. Math., H. Latin).
 MacKinnon, Donald (L. Latin).
 Mackintosh, Charles Calder (I. Math., French, Dynamics).
 MacLaren, Alexander (English).
 M'Lean, John Shaw (English, L. Math.).
 MacLellan, Alexander Stephen (English, German).
 M'Lelland, William (H. Latin).
 MacLennan, Jane Wardlaw Elizabeth Violet (L. Latin).
 MacLeod, Ronald (English).
 M'Leod, William Norman (French).
 M'Luggage, Agnes (English, German).
 M'Millan, Charles (English, I. Math., L. Latin, L. Greek).
 M'Millan, Duncan (English, Dynamics).
 MacMillan, Mary (English, I. Math, French).
 M'Millan, Robert Kerr (H. Latin).
 M'Millan, William (English, L. Latin).
 Macmurchy, Catherine (H. Latin).
 Macnab, Samuel (I. Math., L. Latin).
 M'Narey, John (English).
 M'Naught, Jane Hague (English).
 Macouat, James Bilsland (English).
 Macpherson, George Lauchlan (English, L. Greek).
 M'Pherson, Mary Brown (I. Math., L. Latin).
 M'Quarrie, John (H. Math.).
 MacRae, Donald Sutherland (H. Latin, H. Greek).
 M'Robert, Alfred (English, I. Math., L. Latin).
 M'Vean, Duncan Alexander (L. Latin, French).
 M'Vittie, Thomas (English, I. Math.).
 M'William, Jessie Stewart (L. Latin).
 Malcolm, John (Dynamics).
 Marriott, Robert Ecklin (I. Math.).
 Masterton, Jessie Vallance (H. Greek).
 Mather, James (H. Math., L. Latin, French).
 Mathers, Margaret (French).
 Maxwell, James (L. Latin).
 Maxwell, Thomas Baird (Dynamics).
 Middleton, Flora (English).
 Millar, Ruby (L. Latin).
 Miller, Janey Callander Grant (H. Latin).
 Miller, Thomas Brown (I. Math.).
 Miller, William (H. Latin, L. Greek).

Mitchell, Adam Brownlie (H. Latin, H. Greek, Dynamics).
 Mitchell, Margaret Cochrane (I. Math., French).
 Mitchell, Mary Cochran (L. Latin).
 Montgomery, Matthew (H. Math., H. Latin, L. Greek).
 Morrison, Hugh (English, French).
 Morrison, James (L. Latin).
 Morrison, John Coutts (L. Latin).
 Moss, John Hunter (L. Latin).
 Munn, Sarah Colquhoun (English).
 Murchison, Williamina (English).
 Murray, John (English, L. Math.).
 Murray, Mary Weir (L. Latin).
 Neilson, Thomas Haig (I. Math.).
 Nelson, Alice Marion (H. Latin).
 Niven, Richard Blake (English, I. Math., L. Latin).
 O'Beirne, Neil Hay (L. Latin).
 O'Brien, Daniel Grant (English, H. Math., H. Latin, L. Greek).
 Ogg, David (H. Math., L. Latin).
 O'Hare, Thomas Alphonsus (English, L. Latin, French).
 Omand, George Gair (L. Math., L. Greek).
 Orr, Robert Alexander (I. Math., H. Latin, H. Greek).
 Oswald, Helen Johnston (L. Math., L. Latin).
 Park, Jeanie (H. Math., L. Latin).
 Pate, William (French, Dynamics).
 Paterson, Andrew (H. Latin, French).
 Paterson, Hector Donald M'Leod (English).
 Paterson, Jane Mary (L. Math., L. Latin).
 Paton, Maggie Young (H. Math., H. Latin).
 Paton, Richard Reid Kirkwood (English, I. Math., L. Latin).
 Phillips, James (H. Latin).
 Porter, John, B.Sc. (L. Latin).
 Powicke, William Alfred (L. Math., H. Latin, L. Greek).
 Pursell, Margaret Pettigrew (French).
 Rae, Janet Margaret (I. Math., L. Latin).
 Ramsay, James Alexander (H. Math., L. Latin).
 Rankin, Agnes Hamilton (L. Latin).
 Reid, Alexander Mowatt (English, L. Math.).
 Reid, Elizabeth Cunningham (H. Math., L. Latin).
 Reid, James Young, (L. Latin).
 Reid, Jane (L. Latin).
 Reid, William Kirkpatrick (L. Latin).
 Rennie, Evelyn Moya Hope (English).
 Reyburn, Hugh Adam (L. Latin).
 Ritchie, Alexander Sutherland (L. Latin).
 Robertson, Agnes Brisbane (L. Math.).
 Robertson, Alexander Morris (L. Latin, French).
 Robertson, Elizabeth Mary Hope (L. Latin).
 Robertson, Frank Lesley (I. Math.).
 Robertson, Janet (English, I. Math.).
 Robertson, Jessie Christina (H. Math., L. Latin).
 Robertson, John (L. Latin).
 Roed, Carl William Liepke (I. Math., Dynamics).
 Rorke, Joseph Davidson Manners (I. Math., L. Greek).
 Ross, Agnes (I. Math.).
 Ross, Alexander David (H. Latin).
 Ross, James Charles (H. Latin).

Ross, Mary Gilbert (L. Latin, French).
 Russell, Alexander (French, Dynamics).
 Russell, Alexander Smith (English, H. Math., L. Latin, French).
 Russell, John (I. Math., L. Latin).
 Russell, Margaret Cowan (English).
 Russell, Thomas (L. Latin).
 Saunders, Herbert Washington (I. Math., L. Latin, L. Greek).
 Scott, Georgina (I. Math., L. Latin).
 Scott, John Livingston (H. Math., L. Latin).
 Scott, Neil Campbell (English, L. Latin).
 Scott, Thomas Thripland (L. Latin).
 Scott, William Lamond (L. Math.).
 Semple, Christina (English).
 Service, George Brown (German).
 Sewell, William Alexander (English, L. Greek).
 Shirlaw, James (L. Latin).
 Shortridge, Benjamin (I. Math.).
 Sim, William (H. Latin, French, Dynamics).
 Simpson, Jeanie (H. Latin).
 Simpson, Mary (H. Math., L. Latin).
 Sinclair, Robina (English).
 Small, Gladstone Lothian Rosebery (I. Math., L. Latin, French).
 Smellie, William Robert (L. Latin).
 Smith, James Jackson (H. Math., H. Latin).
 Smith, William James (H. Greek).
 Sneddon, Robert (English, L. Latin).
 Sommerville, Robert Smellie (English, H. Math., L. Latin).
 Spence, Annie Watson (H. Math., H. Latin).
 Sprunt, Janet (English, L. Latin).
 Stalker, Donald (H. Latin).
 Steele, William (I. Math., French).
 Stephen, Robert (English, H. Math., H. Latin, L. Greek).
 Stevens, Alexander (H. Math., L. Latin, Dynamics).
 Stevenson, Alexander MacEwen (L. Latin).
 Stewart, Agnes (I. Math.).
 Stewart, Andrew (English).
 Stewart, James (Lochee) (H. Greek).
 Stewart, John (I. Math.).
 Stewart, May Eliza (L. Latin).
 Stewart, Peter M'Arthur (English, H. Math., L. Latin, French).
 Stewart, Petrina (English, H. Latin).
 Stothers, Mary Jane (L. Latin).
 Strang, Elspet Patricia Campbell (French).
 Stratton, James (English, I. Math., H. Latin, French, Dynamics).
 Struthers, Robert (L. Math.).
 Taylor, Catherine (L. Latin).
 Taylor, Margaret Nisbet (L. Latin).
 Taylor, Sarah MacLachlan (I. Math., H. Latin).
 Telfer, Stephen Veitch (H. Math., French, Dynamics).
 Thom, Ernest Graham Young (H. Latin).
 Thomson, Elizabeth Kay (L. Latin, French).
 Thomson, William Henderson (I. Math.).
 Todd, Elsie (I. Math., L. Latin).
 Torrance, Percy Watt (English, L. Math.).
 Tulloch, James (L. Latin).
 Turner, Thomas Brown (L. Latin).

Turner, Thomas Lindsay (H. Latin).
 Walker, Hugh Carmalt (I. Math.).
 Walker, Jessie Lind (H. Math.).
 Walker, Steuart M'Ilwraith (L. Latin).
 Walkinshaw, Agnes Helen (H. Math., L. Latin).
 Walls, Joseph Young (French).
 Walton, Edgar Severs (French).
 Ward, Richard James Lockie (English, Dynamics).
 Warden, Kenneth Willoughby (L. Latin, L. Greek).
 Warrand, William Connal (Dynamics).
 Watson, Barbara Fyfe (L. Latin).
 Watson, James (L. Latin, French, Dynamics).
 Weir, Catherine Campbell (H. Latin).
 Weir, William (English, L. Latin).
 Wells, Charles Bradley (I. Math.).
 Wheeler, Harold Dakin (I. Math., French).
 Wilkinson, Mary M'Gibbon (French).
 Williams, David Denis (I. Math., L. Latin, Dynamics).
 Wood, Elizabeth Brown (English).
 Wood, Isabella Wishart (H. Math., L. Latin, French).
 Wood, Robert (English, H. Math., H. Latin, French).
 Wood, William Joseph (English, I. Math., H. Latin).
 Wright, John (I. Math., L. Latin).
 Wynne, James (English).
 Yates, Sophie (I. Math., L. Latin).
 Young, Fergus Hay (English, I. Math., L. Latin).
 Young, Margaret (English, I. Math.).
 Young, William Hugh (English, French, Dynamics).
 Yuille, William (French).

PRELIMINARY EXAMINATION FOR DEGREES IN MEDICINE.

The following passed in the subjects indicated :

October, 1903.

Anderson, James George (Latin).
 Archibald, Thomas (Latin, French).
 Arkieson, Charles (Latin).
 Armstrong, William Hunter Stirling (English, Math.).
 Barbour, David (English, Math.).
 Baxter, Herbert Stewart (English).
 Borland, Douglas Morris (English, Latin).
 Broudy, Morris William (Latin, Greek).
 Brownlie, William Barrie (English, Latin, Math., French).
 Bruce, James (English, Math.).
 Buchanan, Andrew Macfarlane (Math.).
 Buchanan, David Young (Latin, French).
 Burns, Malcolm (English).
 Calder, James (French).
 Cameron, John (English, Math.).
 Campbell, John Archibald Steele (Math.).
 Carlyle, Alice Jane (English).
 Clark, Donald James (French).
 Cochrane, James Lang (French).
 Cook, James (Coalburn) (English, Latin).
 Coulter, James Headrick (French).

Cullen, William (Math.).
 Dobbie, John Nairn (Math.).
 Dunlop, Alexander (Latin, Math.).
 Eltoft, William Crinan (English).
 Frame, David (Math.).
 Frew, Robert Dunlop Black (Latin).
 Gallagher, Florence Ann (Latin).
 Geddes, Alexander St. Clair (Math.).
 Gemmell, William Ernest (French).
 Gilchrist, Alexander Gordon (English).
 Gordon, George Stevenson (French).
 Graham, Joseph (Latin).
 Granger, John (Math.).
 Haddow, George (Math.).
 Harbinson, John (Math.).
 Hay, Euphemia Adamson (Math.).
 Henry, Stephen John (Latin).
 Home, William Whyte (English, Math.).
 Howat, William Hunter (Math.).
 Hunter, Colin (Math.).
 Inglis, William Smith (Math.).
 Jones, Robert Brown (Math.).
 Kirk, Charles Joseph (English).
 Knox, David Neilson (Latin).
 Maben, Thomas Morison (Latin).
 Macaulay, Frank Crombie (Math.).
 M'Cowat, William Woodburn (Math.).
 M'Curdie, William Stevenson (Math.).
 MacDougall, Donald (English, Math.).
 M'Kay, Alexander (Math., French).
 Mackinlay, Thomas (English, Latin, Greek).
 M'Kinnon, Alexander (Math., Greek).
 Macleod, Alexander St. Clair (Greek).
 Macleod, John Muat (French).
 M'Leod Murdoch Hugh (English, Math.).
 Macmillan, Campbell (Math.).
 Macnab, John (Math., French).
 Martin, Francis William (Latin, French).
 Mavor, Osborne Henry (Latin).
 Meek, Donald (Math.).
 Middlemiss, Kenneth Chisholm (English, Latin, Math.).
 Morton, John William (Math.).
 Mowat, John (Latin).
 Murchie, Findlay (Math.).
 Newbigging, David Robertson (English).
 Noble, Watson (English, Math.).
 Orr, Robert (Math.).
 Quigley, James Francis (English, Latin, Math., French).
 Rankin, Henry Nimmo (Latin, French).
 Sailer, George Henry (Math., German).
 Sexton, Florence Elizabeth (Math.).
 Slorach, James William (Math.).
 Steven, Roderick Alexander (Latin, French).
 Stewart, Alexander (English, Math., French).
 Stewart, Alice Mary (French).
 Stewart, William (Math.).

Stewart, William Ballantine (Math.).
 Stewart, William Loudon (English, Math.).
 Sutherland, Robert Wilson (English, Math.).
 Taylor, Archibald (Math., French).
 Taylor, William Rowland (Math.).
 Thomson, Duncan Macnicol (English).
 Wallace, Jemima (English).
 Walters, Ethelwyn Mary (Math.).
 Watson, Alexander (Math., French).
 Whitfield, James Brown (Math.).
 Wilson, George Jackson (Math.).
 Windsor, Henry Joseph (Math., French).
 Yates, Tom (Math.).
 Young, Alexander (English, Math.).

April, 1904.

Allan, John (English, Latin, Math., French).
 Anderson, Fred William Milroy (English, Math.).
 Anderson, James George (Latin, French).
 Anderson, William (English, Math.).
 Anderson, William Niell (English, French).
 Arkieson, Charles (Latin).
 Auchencloss, Agnes Barr (Math.).
 Barbour, David (French).
 Barraclough, James (English).
 Baxter, Herbert Stewart (English).
 Beard, Emile Augustine Cameron (English, Latin, Math., French).
 Beard, Marie Alexina Annette (English).
 Blair, James M'Lagan (Latin, German).
 Borland, Douglas Morris (Math., Greek).
 Broadfoot, John (French).
 Broudy, Morris William (English).
 Brown, Alexander Hogg (English, Latin, Math., French).
 Buchheim, Carl Joseph Barrett (Latin, French).
 Burton, John Adam Gib (Latin, Math.).
 Cameron, John (French).
 Campbell, John Archibald Steele (English, Latin, Math., French).
 Clark, John M'Dougall (Math.).
 Clark, William George (English).
 Cochrane, James Lang (English, Latin, Math., French).
 Coulter, James Headrick (French).
 Cramb, Rutherford (Latin, French).
 Crocket, James (English, Latin, Greek).
 Cronin, William (Math.).
 Cullen, William (Math.).
 Downie, Donald (Latin).
 Dunlop, Alexander (English).
 Eltoft, William Crinan (Math.).
 Fisher, Donald (French).
 Fitzpatrick, James Alouysius (Math., French).
 Fleming, John Ramsay (English).
 Gale, Robert (French).
 Gallagher, Florence Ann (Latin, French).
 Geddes, Alexander St. Clair (Math.).
 Geyer, Adolph Robert Hanns (English, Math.).
 Gilchrist, Alexander Gordon (Latin, Math., Greek).

Gillespie, Arthur Alexander Henderson (English).
Gillespie, John (English).
Gordon, George Stevenson (Latin, French).
Granger, John (Latin, Math., French).
Gregorson, Albert William (English, Latin, Math., French).
Haddow, George (Latin, Math.).
Home, William Whyte (French).
Howie, William (Latin, French).
Hughes, Thomas Jorwerth (English).
Hunter, Colin (English, Latin, Math., French).
Inglis, William Smith (Math.).
Jones, Robert Brown (Math.).
Kerr, Marion Macfie (English, Latin, Math., French).
Kirk, Charles Joseph (English, French).
Kirkwood, Thomas (English).
Knox, David Neilson (English, Latin).
Lindsay, William Thomson (English, Math.).
Little, James Ekron (Latin, Greek).
Macallan, James (Latin, Math., French, German).
Macartney, William Charles (Math., Greek).
M'Connell, William (Latin).
M'Cormack, James (French).
M'Cowat, William Woodburn (Math.).
Macdonald, Malcolm Angus (English, Latin, Math., Greek).
Macdonald, William Robertson (German).
Macewen, William (English, Math.).
M'Intyre, Donald (English, Latin).
Mackay, Alexander (English, Latin).
Mackay, David (English).
M'Kie, William Maxwell (Latin).
M'Knight, James Chalmers (English).
M'Lay, Frank Watt Ballantyne (Latin).
M'Leod, Archibald (English, Math.).
M'Leod, Murdoch Hugh (Latin, French).
Macmillan, Campbell (Latin).
M'Nicol, John Hart (French).
Macphee, Stephen Anderson (English).
M'Vey, Maxwell Adams (German).
Marlin, Thomas (Latin).
Martin, Francis William (English, Latin, Math., French).
Meighan, Thomas Spence (Math.).
Mitchell, Robert (English, Math.).
Morgan, John M'Intosh (Latin, Math.).
Morton, William Grierson (English, German).
Muir, Andrew Ross (English, Math.).
Muir, William (English).
Murchie, Findlay (English, Latin, Math.).
Newbigging, David Robertson (Math.).
Orr, Robert (English, Math.).
Paterson, Robert (English).
Paterson, Thomas (Math.).
Pollock, Alexander Gilmour (English, Math.).
Riddell, Hugh Young (French).
Roemmele, Alfred (Latin).
Rorke, William Wilson (English, Latin, Math., French).
Rutherford, William (Latin, French).

Savy, Félix (Math., French).
 Savy, Marcel (Math., French).
 Scott, William Hardie (Math., French).
 Sexton, Florence Elizabeth (Math.).
 Shanley, Andrew (English).
 Sinclair, James David Speid (English, Latin).
 Sinclair, James Johnston (English, Latin, Math., German).
 Stark, William (English).
 Steven, Roderick Alexander (English, Math.).
 Stewart, Alexander (Latin).
 Stewart, Alice Mary (English).
 Stewart, John Alexander (Math.).
 Stewart, William (English).
 Stewart, William Ballantine (English, Latin, French).
 Sutherland, Robert Wilson (Latin, French).
 Suttie, David Campbell (Math., French).
 Symons, William Stirling (Math.).
 Taylor, Duncan Macnab (Latin, French).
 Thomson, Duncan Macnicol (English, French).
 Thomson, Edward Napier (English).
 Thomson, Mary Buchanan (English, Latin, Math.).
 Twiss, Josiah Oliver (French).
 Wagner, Charles Hermann (English, Latin, Math., French).
 Wallace, Jemima (English, Latin).
 Walters, Ethelwyn Mary (Latin).
 Watson, Henry Currie (English).
 White, William Herbert Nairne (English, Math.).
 Whitelaw, Thomas (Latin, French).
 Whitfield, James Brown (English, Latin, Math., French).
 Williamson, Herbert Matthew (English).
 Williamson, James (English).
 Wilson, George Jackson (English, Math.).
 Wilson, Hugh Gilmer (English, Math.).
 Wilson, Thomas Robert (English).
 Wilson, William Long (English, Latin, Math., French).
 Windsor, Henry Joseph (English, Latin, Math., French).
 Yellowlees, David (Latin).

BURSARY EXAMINATION.

October, 1903.

The figure (2) denotes students of the second year.

The following are the first forty-eight names in the order of merit, viz.

1. Henry I. Cunningham, Ayr Academy.
2. Mungo T. Archibald, Hamilton Academy.
3. George Anderson, Hillhead High School, Glasgow.
4. John W. Tait, Hamilton Academy.
5. Oswald J. Gardner, Hutchesons' Grammar School, Glasgow.
6. Thomas N. M'Iravey, Greenock Academy.
7. Charles E. Duff, High School, Glasgow.
8. Louis C. Phillips, Ayr Academy.
9. George R. Robertson (2), Royal Academy, Inverness.
10. James Carmichael (2), Grammar School, Campbeltown.
11. Charles Cameron, Rothesay Academy.
12. James Cunnison, Blairgowrie Public School.
13. David N. Strathie, Glasgow Academy.

14. Elton L. Gueritz, Trinity College, Glenalmond.
15. Elizabeth F. Stevenson, Spier's School, Beith.
16. Alexander T. Yuille, Kilmarnock Academy.
17. William M'Ewan, Grammar School, Paisley.
18. James M. Scott, Rothesay Academy.
19. Margaret B. Moir, Girls' High School, Garnethill, Glasgow.
20. Edward J. A. Stewart, High School, Glasgow.
21. John Wilson, Royal Academy, Irvine.
22. Douglas D. Robertson, Hutchesons' Grammar School, Glasgow.
23. Walter Gilmour, Hamilton Academy.
24. Thomas Hyslop, Wishaw Public School.
25. James Keith, Hamilton Academy.
26. Elizabeth G. Morison (2), Greenock Academy.
27. Annie M. Macphail, Hillhead High School, Glasgow.
28. James Liggat, Spier's School, Beith.
29. William A. Murdoch, High School, Glasgow.
30. James Hogg (2), High School, Glasgow.
31. Alexander B. Harper, Wishaw Public School.
32. William Oswald, High School, Stirling.
33. James Hendry, Beith Academy.
34. Walter S. L. Dalgleish, Hutchesons' Grammar School, Glasgow.
35. Isabella M. Ross, Royal Academy, Inverness.
36. Alexander K. Aitken (2), Beith Academy.
37. John Graham, Hutchesons' Grammar School, Glasgow.
38. Robert Allan (2), Newmilns Public School.
39. Peter R. M'Naught, Hutchesons' Grammar School, Glasgow.
40. William J. Merry, Dalziel High School, Motherwell.
41. John P. Mathie, Allan Glen's School, Glasgow.
42. Robert W. Roxburgh, Dumbarton Burgh Academy.
43. Andrew Boyd, Spier's School, Beith.
44. David J. Wallace, Kilmarnock Academy.
45. William W. Stewart (2), Pupil Teachers' Institute, Glasgow.
46. Margaret Blair, Hamilton Academy.
47. Joseph W. Buchanan (2), Whitehill Public School, Glasgow.
48. Margaret Roughead, Hillhead High School, Glasgow.

UNIVERSITY PRIZES.

I.—FOR ESSAYS.

1. In MENTAL PHILOSOPHY, the UNIVERSITY SILVER MEDAL, for the best Essay on "The Theory of the 'Will to Believe': a Statement and Discussion."

Archibald Allan Bowman, Beith.

2. The GARTMORE GOLD MEDAL, for the best Essay on "Theories of Political Liberty in the Eighteenth Century."

William Paterson, Glasgow.

3. A COULTER PRIZE OF FIVE POUNDS, for the best Essay on "Ben Jonson and the Classical School of English Drama."

Archibald Allan Bowman, Beith.

4. A COULTER PRIZE OF FIVE POUNDS, for the best English Essay on the following subject: "How far is it true that Latin Literature, as compared with Greek Literature, is essentially modern in its character?"

John M'Bryde, Stirling.

5. The HENDERSON PRIZE OF TWENTY GUINEAS, for the best Essay on "The Teleological Argument in the Nineteenth Century."

Robert Robertson Rusk, M.A., Ayr.

II.—FOR EXAMINATIONS.

An ARNOTT PRIZE OF FIFTEEN POUNDS, for an Examination in General Physics, open to Students of the first and second years of their Medical Studies.

Ralph Montgomery Fullarton Picken, Glasgow.

An ARNOTT PRIZE OF TWENTY-FIVE POUNDS, for an Examination in Physiological Physics, open to Students of the third and fourth years of their Medical Studies.

John Anderson, M.A., Newmilns, Ayrshire.

The FINDLATER SCHOLARSHIP PRIZE, VALUE THIRTY-EIGHT POUNDS, for Examination in the Subjects for the Degree of B.D.

Augustine Wentworth Scudamore Forbes, M.A., Glasgow.

The JAMIESON PRIZE, VALUE TEN POUNDS, for Examination in the Subjects for the Degree of B.D.

William Neve Monteith, B.A., Glencairn.

The MACFARLAN AND COOK TESTIMONIAL PRIZE OF TWENTY-ONE POUNDS, open to Theological Students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

Thomas Low, M.A., Peebles.

The GLADSTONE HISTORICAL PRIZE OF TWENTY-ONE POUNDS, for the best Examination in English History.

George Stewart, M.A., Campbeltown.

The THOMAS LOGAN MEMORIAL MEDAL AND PRIZE OF TWELVE POUNDS, to the Graduate in Arts of the year (1903) with the Highest Marks in the Degree Examinations.

William Sutherland, M.A., with First-Class Honours in Mathematics and Natural Philosophy and Second-Class Honours in History.

The BRUNTON MEMORIAL PRIZE OF TEN POUNDS, to the most distinguished Graduate in Medicine of the year (1903).

Spencer Mort, Glasgow.

III.—FOR THESES.

BELLAHOUSTON GOLD MEDAL, for Eminent Merit in Thesis for M.D.

John Hammond Teacher, M.A., M.D.

CLASS PRIZES.

Faculty of Theology.

DIVINITY.

PROFESSOR HENRY M. B. REID, D.D.

SENIOR CLASS.

I. Students of the Third Year :—

1. George Muir, M.A., Dumoon (Caird Prize of £5 5s. in Books, Cleland and Rae-Wilson Gold Medal, Dickson Prize.)
2. William Lindsay, M.A., Coatbridge.
3. Hector MacLean, M.A., Tiree.
4. James Baird, Stevenston.

Honourable Mention—John Chambers, Ayr; William W. Clark, M.A., Larkhall.

Downhill Prizes for Elocution—

1. (£20) John Chambers, Ayr.
2. (£10) Alexander S. Dunlop, M.A., Greenock.

II. Students of the Second Year :—

1. John S. Robertson, M.A., Glasgow (Caird Prize of £5 5s. in Books).
2. Robert Alexander, M.A., Ayr.
3. John R. Spence, M.A., Lochwinnoch.
4. { Gordon Quig, Glasgow.
Frank W. Saunders, M.A., Kingarth, Bute.

Honourable Mention—Humphrey Chalmers, M.A., Rosneath; John M. Hamilton, M.A., Alexandria; James Young, B.A., Dublin.

JUNIOR CLASS.

III. Students of the First Year :—

1. Robert F. Lindsay, M.A., Pittenweem (Caird Prize of £5 5s. in Books).
2. William Reid Wiseman, M.A., Chryston.
3. { Angus J. M'Vicar, M.A., North Uist.
John A. G. Thomson, M.A., Glasgow.

Honourable Mention—Francis Davidson, Paisley; Robert C. Thomson, M.A., Glasgow.

DIVINITY AND BIBLICAL CRITICISM.

PROFESSOR WILLIAM STEWART, D.D.

SENIOR DIVISION.

1. George Muir, M.A., Dumoon (Cleveland and Rae-Wilson Gold Medal).
2. Augustine W. S. Forbes, M.A., Glasgow.
3. William N. Monteith, B.A., Glencairn.

Next in Order of Merit—Thomas Low, M.A., Peebles; James G. MacDonnell, M.A., Motherwell; Alexander S. Dunlop, M.A., Greenock.

JUNIOR DIVISION.

1. John S. Robertson, M.A., Glasgow.
2. { Robert Alexander, M.A., Ayr,
John R. Spence, M.A., Lochwinnoch, } Equal.

Next in Order of Merit—William J. Jamieson, M.A., Coatbridge; John M. Hamilton, M.A., Alexandria.

HEBREW AND SEMITIC LANGUAGES.

PROFESSOR JAMES ROBERTSON, D.D.

I. SENIOR HEBREW CLASS.

1. John S. Robertson, M.A., Glasgow (Cleveland and Rae-Wilson Gold Medal).
2. Robert Alexander, M.A., Ayr.
3. William D. Macgill, Irvine.

Next in Order of Merit—John R. Spence, M.A., Lochwinnoch; James C. M. Fairlie, Paisley.

II. THIRD YEAR HEBREW.

Hector MacLean, M.A., Tiree.

III. SPECIAL PRIZES.

Summer Readings—James R. Buchanan, Paisley; James C. M. Fairlie, Paisley.

Original Composition in Hebrew—James R. Buchanan.

Repetition of Selected Chapters—James R. Buchanan.

Essay on Ecclesiastes—James R. Buchanan; Robert Alexander, M.A.

IV. ARABIC CLASS (ADVANCED).

James R. Buchanan.

Neil Conley, Campbeltown.

James C. M. Fairlie.

V. SYRIAC CLASS.

Thomas Low, M.A., Peebles.

William N. Monteith, B.A., Glencairn.

George Muir, M.A., Dunoon.

VI. JUNIOR HEBREW CLASS.

1. Robert F. Lindsay, M.A., Pittenweem.

2. Gavin Lawson, M.A., Shettleston.

3. John Baillie, M.A., Glasgow.

4. Robert C. Thomson, M.A., Glasgow.

5. George J. Jeffrey, M.A., Alloa.

6. John A. G. Thomson, M.A., Glasgow.

Summer Session, 1903.

LECTURER—THOMAS H. WEIR, B.D.

DEGREE HEBREW—Hugh Watt, M.A.

PREPARATORY HEBREW—Alexander R. Mackenzie.

ARABIC—James R. Buchanan.

CHURCH HISTORY.

PROFESSOR JAMES COOPER, D.D.

I. JUNIOR CLASS.

1. Robert F. Lindsay, M.A., Pittenweem.

2. Robert C. Thomson, M.A., Glasgow.

3. Gavin Lawson, M.A., Shettleston.

4. John A. G. Thomson, M.A., Glasgow.

SUBSEQUENT ORDER.

5. Hector Cameron, Glasgow.

6. Dugald M'Callum, Kildean, Kintyre.

7. George Ferguson, M.A., Kingussie.

8. Francis Davidson, Paisley.

II. SENIOR CLASS.

1. John Chambers, Ayr (Cleland and Rae-Wilson Gold Medal).

2. William W. Clark, M.A., Larkhall.

3. { Thomas Low, M.A., Peebles,
James G. MacDonald, M.A., Motherwell, } Equal.

4. George Muir, M.A., Dunoon.

EXTRA PRIZE FOR ESSAY—Thomas Low, M.A., Peebles.

SUBSEQUENT ORDER.

5. William Lindsay, M.A., Coatbridge.

6. Neil M'Lellan, Benbecula.

7. William N. Monteith, B.A., Glencairn.

8. Hector MacLean, M.A., Tiree.

Faculty of Law.

SCOTS LAW.

PROFESSOR ALEXANDER MOODY STEWART, LL.D.

I. For Eminence in Class Examinations:—

1. *James L. Mackenzie, M.A. Robert Ross Prize.
2. *Alfred W. Hunter.
3. *Morton M. Muir, M.A.
4. *George Cruickshank.
5. *James Kerr.
6. *John A. Findlay, M.A.
7. Thomas P. Riddell, M.A.
8. { Edward D. Anderson, } Equal.
- { Archibald Crawford, M.A., }
10. William A. Millar.
11. Robert R. Ness, M.A.
12. John Torrance.
13. Ronald W. Currie.
14. { Thomas R. Evans, } Equal.
- { James B. Smith, }

II. For Eminence in Examination for Prizes given by the Faculty of Procurators in Glasgow:—

1. *George Cruickshank.
2. *John A. Findlay, M.A.
3. *James L. Mackenzie, M.A.
4. *Alfred W. Hunter.
5. *John Torrance.
6. *James Kerr.
7. Morton M. Muir, M.A.
8. James B. Smith.

The * denotes the Prizemen.

CONVEYANCING.

PROFESSOR JAMES MOIR, LL.D.

Prizemen.

1. Andrew Shearer, Strathaven (Robert Ross Prize).
2. Cosmo A. Ralston, Glasgow.
3. Thomas G. Robertson, M.A., Glasgow.
4. James M. Reid, Greenock.

Eminently distinguished.

5. Finlay Morrison, Greenock.
6. William Smith, Alvah, Banff.
7. Charles Murray, Ayr.
8. James W. Buchan, M.A., Glasgow.
9. Daniel Gardner, Gartmore, Perthshire.

Examination for Prizes given by the Faculty of Procurators in Glasgow. Prizemen.

1. Andrew Shearer.
2. { Cosmo A. Ralston.
- { William Smith.

Eminently Distinguished.

4. James M. Reid.
5. Thomas G. Robertson, M.A.
6. Campbell Cochran, Paisley.
7. William S. W. Main, Govan.
8. Finlay Morrison.

CIVIL (OR ROMAN) LAW.

LECTURER—JAMES M. IRVINE, LL.B., ADVOCATE.

- | | | |
|------------------------------|-------|---------------------|
| 1. *Harold Wilson, M.A. | 9. { | Alexander Hynd. |
| 2. *Robert Jackson, M.A. | | William C. Findlay. |
| 3. *James L. Mackenzie, M.A. | | Thomas Smith. |
| 4. Albert F. L. Brayne, | 12. { | John Bowie. |
| 5. William Thompson. | | Samuel B. Patrick. |
| 6. { Robert Dickie. | 14. | James C. MacGregor. |
| | | 15. James Egans. |
| John A. M'Connachie. | | |
| Albert Russell. | | |

The * denotes the Prizemen.

PUBLIC INTERNATIONAL LAW.

LECTURERS—WILLIAM GALBRAITH MILLER, LL.B., ADVOCATE (died 6th February, 1904), and ANDREW A. MITCHELL, LL.B.

HONOURS.

1. Hamilton Crawford, M.A. (First Prize).
2. John C. Brechin, M.A. (Second Prize).
3. { James W. Buchan, M.A.
- John R. Haldane, M.A.
5. James Kerr.

INTERNATIONAL PRIVATE LAW.

Summer Session, 1903.

LECTURER—WILLIAM GALBRAITH MILLER, LL.B., ADVOCATE.

First-Class Honours and Prizes.

1. Thomas G. Robertson, M.A., Glasgow.
2. Theodore D. Lowe, M.A., Glasgow.

Second-Class Honours.

3. Alexander B. Mackay, M.A., Glasgow.
4. John C. Brechin, M.A., Glasgow.
5. John R. Haldane, M.A., Paisley.
6. { John A. Finlay, M.A., Glasgow. } Equal.
- John Mair, M.A., Glasgow.

JURISPRUDENCE.

LECTURERS—WILLIAM GALBRAITH MILLER, LL.B., ADVOCATE (died 6th February, 1904), and HUGH R. BUCHANAN, LL.B.

1. Hamilton Crawford, M.A. (First Prize).
2. John Mair, M.A. (Second Prize).
3. Thomas G. Robertson, M.A. (Merit Certificate).
4. John A. Findlay, M.A. (Merit Certificate).

CONSTITUTIONAL LAW AND HISTORY.

LECTURER—WILLIAM S. M'KECHNIE, LL.B., D.Phil.

Honours Class.

1. Archibald C. Black, M.A. (Prizeman).
2. James E. Scott.

Ordinary Class.

1. Harold Wilson, M.A. (First Prize).
2. { William Grant
Robert P. Smith } (Second Prize), equal.
4. Henry G. B. Spens.
5. { William S. Deans,
George Pennycook, } Equal.
7. William S. B. Wilson, M.A.

MERCANTILE LAW.

LECTURER—WILLIAM SHAW.

Prizes.

1. James Austin, LL.B.
2. James A. Walker.
3. { John A. Fullarton.
Arthur A. Rennie.

Highly Distinguished.

John S. Kinroy.	Nicol C. Thomson.
Patrick H. Fraser.	Thomas C. Thomson.
Edward L. Mackillop.	William A. Walton.
William Guthrie.	David B. Mungo, M.A.

FORENSIC MEDICINE.

PROFESSOR JOHN GLAISTER, M.D., D.P.H. (Camb.), F.R.S.E.

First-Class Certificates.

Medallist—Robert R. Ness, M.A.

Proxime accessit—Archibald Crawford, M.A.

Next in order of Merit.

William E. Cameron, M.A.	David M. Hutchison, M.A.
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Faculty of Medicine.

MEDALS AND CERTIFICATES OF MERIT.

SURGERY.

PROFESSOR SIR WILLIAM MACEWEN, M.D., LL.D., F.R.S.

First-Class Certificates.

1. { Arthur Innes.
Alex. S. M. Macgregor.
Hugh A. Macewen, non-competitor. } Medal.
2. George A. Allan.
3. John L. Stewart, M.A.
4. { William Grier.
William J. Rutherford. }
5. Charles G. Mackay.

Commendation Certificates.

- | | |
|---------------------------|----------------------------|
| 1. John S. Dunn, M.A. | |
| 2. Robert D. Bell, M.A. | 5. { Robert S. Dewar, M.A. |
| 3. { Robert W. Dale, M.A. | { Hugh A. Edwards. |
| { George G. Smith, B.Sc. | { William B. Jack. |
| 4. Henry S. Ranken. | 6. { John C. Russell, M.A. |
| | { John Stewart. |
| | 7. James R. Kerr. |

OPERATIVE SURGERY.

PROFESSOR SIR WILLIAM MACEWEN, M.D., LL.D., F.R.S.

Summer Session 1903.

1. Medallist—Alex. Matheson, M.A., B.Sc.

First-Class Certificates (in order of merit).

- | | |
|------------------------|------------------------------|
| 2. Joseph Walker, M.A. | 6. Daniel F. Riddell, M.A. |
| 3. David Dickie. | 7. Robert T. Wells, M.A. |
| 4. Peter H. Robertson. | 8. Spencer Mort. |
| 5. Samuel C. Cowan. | 9. Wm. D. H. Stevenson, M.A. |

Demonstrators.

Alex. Matheson, M.A., B.Sc.
 Spencer Mort.
 Daniel F. Riddell, M.A.
 Peter H. Robertson.

Joseph Walker, M.A.
 Robert T. Wells, M.A.
 John Young.

CLINICAL SURGERY.

PROFESSOR SIR WILLIAM MACEWEN, M.D., LL.D., F.R.S.

Summer Session, 1903.

1. Medallist—David Dickie.

First-Class Certificates (in order of merit).

- | | |
|---------------------------|-----------------|
| 2. George G. Smith, B.Sc. | 3. William Dow. |
|---------------------------|-----------------|

Clinical Registrar—James R. Kerr.

Winter Session, 1903-4.

Clinical Registrar—James R. Kerr.

SENIOR DIVISION.

First-Class Certificates.

- | | |
|-------------------------------|----------|
| 1. { Robert B. Carslaw, M.A., | } Medal. |
| { James M'Houl, | |
| 2. Forrest Brechin. | |
| 3. { Archibald C. Amy. | |
| { Ernest M. Watkins. | |

Commendation Certificates.

- | | |
|--------------------------|--------------------------|
| 1. Roderick MacLeod. | 5. { David Blackley. |
| 2. Henry G. Anderson. | { Richard C. Macpherson. |
| 3. Charles M. Drew, M.A. | { Charles Brown. |
| 4. { Allan C. Douglas. | 6. { John C. Crawford. |
| { James R. S. Anderson. | { Scott C. Adam. |

JUNIOR DIVISION.

First-Class Certificates.

- | | |
|--------------------------------|---------------------|
| 1. Robert W. Dale, M.A.—Medal. | 4. George A. Allan. |
| 2. John S. Dunn, M.A. | 5. Hugh A. Macewen. |
| 3. Walter G. Macdonald, M.A. | |

Commendation Certificates.

- | | |
|--------------------------|----------------------------|
| 1. David G. Hunter, M.A. | 4. John Taylor. |
| 2. Peter Maguire. | 5. Thomas T. Rankin. |
| 3. Arnold E. Jones. | 6. Alexander Graham, B.Sc. |

CLINICAL SURGERY.

PROFESSOR SIR HECTOR C. CAMERON, M.D.

Summer Session, 1903.

Certificates of Merit (alphabetically arranged).

- | | |
|------------------------|-----------------------|
| John R. M'Gilvray. | William N. W. Watson. |
| William J. Rutherford. | Frank Worthington. |

Winter Session, 1903-4.

Certificates of Merit.

- | | |
|------------|---------------------|
| John Weir. | John Anderson, M.A. |
|------------|---------------------|

PRACTICE OF MEDICINE.

PROFESSOR THOMAS M'CALL ANDERSON, M.D.

SENIOR DIVISION.

Medal—John M'Farlane.

First-Class Certificates (in order of merit).

- | | |
|----------------------------|----------------------|
| 1. { William B. M. Martin. | 2. Andrew B. Aitken. |
| { William Templeton. | 3. Thomas Orr. |

JUNIOR DIVISION.

Gairdner Medal—David Blackley.

First-Class Certificates (in order of merit).

- | | |
|-----------------------|-------------------------|
| 1. George M. Gray. | 4. { John Muir. |
| 2. Tom D. M'Ewan. | { John C. Russell, M.A. |
| 3. John S. Dunn, M.A. | 5. James Hunter. |

CLINICAL MEDICINE.

PROFESSOR THOMAS M'CALL ANDERSON, M.D.

Summer Session, 1903.

First-Class Certificates (in order of merit).

SENIORS.

- | | |
|-------------------------------|-------------------------------------|
| 1. Andrew Connal. | 3. { Daniel L. Carmichael, } Equal. |
| 2. { John B. Morton, } Equal. | { Donald R. Reid, |
| { James Wilson, } | |

JUNIORS.

- | | |
|-------------------------|--------------------------|
| 1. Peter Mitchell, M.A. | 3. Robert S. M'Kim, M.A. |
| 2. Charles S. Thomson. | |

Winter Session, 1903-4.

SENIOR DIVISION.

Medal—Thomas M. Campbell, M.A.

First-Class Certificates (in order of merit).

Thomas H. Rankin.

John M. H. Caldwell.

Alexander Hunter.

William H. Sieger.

Alexander Leggat.

JUNIOR DIVISION.

Medal—Charles S. Thomson.

First-Class Certificates (in order of merit).

Arthur M. Crawford.

John Stevenson.

James Coutts.

William H. Duncan.

CLINICAL MEDICINE.

PROFESSOR SAMSON GEMMELL, M.D.

Summer Session, 1903.

First-Class Certificates (alphabetically arranged).

SENIORS.

Robert Adam.

Alexander Matheson, M.A., B.Sc.

James Forsyth.

William D. H. Stevenson, M.A.

John Samson, M.A.

William Stewart.

Malcolm Hutton, M.A., B.Sc.

John W. Sutherland.

Robert T. Leiper.

JUNIORS.

James H. Baird, B.A.

William A. Stuart.

William B. M. Martin.

Alexander M. Watson.

Winter Session, 1903-4.

SENIOR DIVISION.

Medallist—Andrew M. Pollock.

First-Class Certificates (alphabetically arranged).

Andrew B. Aitken.

James Marshall.

David L. Graham.

William B. M. Martin.

James Hunter.

Andrew Meek.

Arthur Innes.

Howard H. Patrick.

Peter Lowe, M.A., B.Sc.

William Rankin, M.A.

Robert T. Leiper.

George G. Smith, B.Sc.

JUNIOR DIVISION.

Medallist—William B. Jack.

First-Class Certificates (alphabetically arranged).

James H. Baird, B.A.

William L. Kirkwood.

William Grier.

John Smith, M.A.

Harry S. Hutchison.

MIDWIFERY.

PROFESSOR MURDOCH CAMERON, M.D.

Medallist—Robert B. Carslaw, M.A.

First-Class Certificates (alphabetically arranged).

Andrew B. Aitken.	George M. Gray.
Charles Brown.	James M'Houl.
Robert B. Carslaw, M.A.	David J. M'Leish, M.A., B.Sc.
Charles M. Drew, M.A.	Robert M. Wilson.

Second-Class Certificates (alphabetically arranged).

Scott C. Adam.	John M'Millan.
Robert D. Bell, M.A.	John Murdoch.
John D. M'Callum, M.A.	William C. Stewart.
Ronald Mackinnon.	James W. Thomson.

DISEASES OF WOMEN.

PROFESSOR MURDOCH CAMERON, M.D.

Summer Session, 1903.

Medallist—George M. Gray.

First-Class Certificates (alphabetically arranged).

Robert Adam.	Malcolm Hutton, M.A., B.Sc.
John W. Arthur.	Thomas Lovett.
Carl H. Browning.	John M'Farlane.
Andrew Connal.	Donald R. Reid.
Charles M. Drew, M.A.	

Second-Class Certificates (alphabetically arranged).

Thomas Bennett, M.A.	Thomas S. Macaulay.
Charles Brown.	James A. Macvea.
Robert Cumming, B.D.	William Shedden.
William Dow.	George H. Wildish.
John M. Kelly.	

INSANITY.

Lecturer—DAVID YELLOWLEES, M.D., LL.D.

Summer Session, 1903.

1. Mackintosh Bursary—Alexander S. M. Macgregor.

First-Class Certificates.

2. John M'Farlane.	4. James Marshall.
3. William Templeton.	5. Malcolm A. Sinclair.

Second-Class Certificates.

6. { Jane H. M'Iroy, M.A., B.Sc.	7. { Mary T. Gallagher.
{ Jane S. Maclauchlan.	{ Thomas Orr.
{ John Murdoch.	8. Annie M. Yates.
{ Arnold E. Jones.	9. { Andrew B. Aitken.
	{ Ernest M. Watkins.

DISEASES OF THE EAR.

Lecturer—THOMAS BARR, M.D.

Summer Session, 1903.

Prizes.

John Graham, B.Sc.

William Templeton.

First-Class Certificates.

Henry G. Anderson.

Alexander S. M. Macgregor.

Forrest Brechin.

John C. Pickup.

John M'Farlane.

James Porter.

Robert M. Macfarlane.

George G. Smith, B.Sc.

Winter Session, 1903-4.

Prize—Thomas Orr.

First-Class Certificates.

James W. Thomson.

William H. Sieger.

DISEASES OF THE THROAT AND NOSE.

Lecturer—JAMES WALKER DOWNIE, M.B.

Summer Session, 1903.

Prize—William Templeton.

First-Class Certificates (in order of merit).

Charles Brown.

John C. Pickup.

William Y. Turner, M.A., } Equal.

James Porter,

Hugh H. Fulton.

John M'Farlane.

Second-Class Certificates (in order of merit).

George C. Nielson.

Ronald Mackinnon,

William R. Taylor.

John C. Henderson,

Charles M. Drew, M.A., } Equal.

James W. Richmond,

John Stewart,

John Muir,

Robert M. Macfarlane.

Winter Session, 1903-4.

Prize—William Rankin, M.A.

First-Class Certificates.

Forrest Brechin.

James R. S. Anderson.

Ernest M. Watkins.

Duncan Macfadyen.

Second-Class Certificates.

George Young.

Hugh A. Edwards.

Thomas S. Macaulay.

PATHOLOGY.

PROFESSOR ROBERT MUIR, M.A., M.D.

Medallist—William Grier.

First-Class Certificates.

William Grier.

William B. Jack.

John S. Dunn, M.A.

George A. Allan.

Thomas Thom.

Second-Class Certificates.

William Rolland.	James H. Baird, B.A.
Hamilton W. Dyke.	John Taylor.
Walter G. Macdonald, M.A.	Robert W. Dale, M.A.
William A. Stuart.	Alexander B. Ferguson.
Cunison D. Rankin.	Peter Maguire.
James M. Renton.	John L. Stewart, M.A.
Arthur Robertson.	William L. Walker, M.A.

PRACTICAL PATHOLOGY.

PROFESSOR ROBERT MUIR, M.A., M.D.

Summer Session, 1903.

Medallist—John S. Dunn, M.A.

First-Class Certificates (in order of merit).

John S. Dunn, M.A.	George Young.	
James Hunter,	David G. Hunter, M.A.,	} Equal.
Thomas Thom,	Alexander C. Russell,	
William Grier.		

Second-Class Certificates (in order of merit).

William A. Stuart.	Thomas T. Rankin,	} Equal.
William L. Walker, M.A.	John L. Stewart, M.A.,	
George A. Allan.	Joseph R. Sutherland,	
	James H. Baird, B.A.,	} Equal.
	Cunison D. Rankin,	

MEDICAL JURISPRUDENCE AND PUBLIC HEALTH.

PROFESSOR JOHN GLAISTER, M.D., D.P.H. (Camb.), F.R.S.E.

Summer Session, 1903.

Medallist—William R. M. Martin.

First-Class Certificates (in order of merit).

George A. Allan.	John L. Stewart, M.A.
William B. Jack,	William Grier,
John Smith,	John Murdoch,
John S. Dunn, M.A.	

Second-Class Certificates (in order of merit).

Walter G. Macdonald, M.A.,	Robert W. Dale, M.A.,	} Equal.
Hugh MacNaught,	Robert S. Dewar, M.A.,	
Henry S. Ranken,	Harry P. Fairlie,	
James Hunter,	William L. Kirkwood,	
John Taylor,	William Rolland,	} Equal.
James M. Renton,	William A. Stuart,	
Ernest M. Watkins,	Alexander B. Ferguson,	} Equal.
Duncan M'Ewan,	Joseph Glaister,	
Thomas Winning, M.A.,	Thomas Thom,	} Equal.
John I. Greig, M.A.,	John M'Millan,	
Joseph R. Sutherland,	John C. Russell, M.A.,	} Equal.
	David G. Hunter, M.A.,	
	Harry S. Hutchison,	

ANATOMY.

PROFESSOR JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.

SENIORS.

Medal—Alister A. C. M'Neill.

First-Class Certificates of Merit.

William Gilbert.

Alfred C. Sharp.

Matthew J. Stewart.

Second-Class Certificates of Merit.

William H. Manson, M.A.

Charles A. Crichtlow.

Robert Donald.

John S. Clark, M.A.

James Coutts,

George H. Wilson,

Thos. M'Cririck, M.A., B.Sc., } Equal.

JUNIORS.

Medal—David A. Thomson, M.A.

First-Class Certificate of Merit—Ralph M. F. Picken.

EMBRYOLOGY.

Lecturer—JAMES F. GEMMILL, M.A., M.D.

Summer Session, 1903.

SYSTEMATIC.

Prize—Thomas Barbour.

First-Class Certificates.

Thomas M'Cririck, M.A., }
William J. Rutherford, } Equal.

John Anderson, M.A.

Second-Class Certificates.

John Miller.

John S. Clark, M.A.,

Thomas L. Craig,

Arthur M. Crawford,

Charles J. C. Macquarie, } Equal.

PRACTICAL.

Second-Class Certificate—George Young.

PHYSIOLOGY.

PROFESSOR JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.

SYSTEMATIC.

John Hunter Medal and First-Class Certificate—Hugh J. Thomson.

First-Class Certificates.

James Cairncross,

David A. Thomson, M.A., } Equal.

Matthew Young.

Matthew J. Stewart.

Second-Class Certificates.

David Arthur,

Herbert Bertram,

Charles A. Crichtlow, } Equal.

Thomas P. Grant,

John M. Taylor, }
Archibald Hogg,

Andrew J. Hutton,

Walter H. Kiep, } Equal.

Donald Renton,

Alexander Scott, } Equal.

John Stewart, M.A., }

PRACTICAL PHYSIOLOGY.

PROFESSOR JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.

Summer Session, 1903.

John Hunter Medal and First-Class Certificate—John W. Miller.

First-Class Certificates.

John Anderson, M.A.

Robert S. M'Kim, M.A.

John S. Clark, M.A.

James H. Paul.

Charles J. C. Macquarie.

Second-Class Certificates.

William Gilfillan.

Frederick G. Robertson.

William J. Rutherford.

Patrick O'Brien.

James R. Drever, M.A.

ADVANCED PRACTICAL PHYSIOLOGY.

Winter Session, 1903-4.

Medal and First-Class Certificate—Thomas B. Smith.

First-Class Certificates.

Harry S. Hutchison.

John I. Greig, M.A.

Second-Class Certificates.

Margaret Barbour, M.A.

Thomas D. Mackenzie.

MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR RALPH STOCKMAN, M.D.

First-Class Certificates (in order of merit).

George H. Wilson—Medal.

Donald Duncan.

Charles S. Thomson.

William Gilbert.

David L. A. Tate.

Second-Class Certificates (in order of merit).

William H. Manson, M.A.

James M'Farlane.

Thomas B. Smith.

William R. Cammock.

Leonard J. Dunstone.

William J. Rutherford.

Alfred C. Sharp.

John Keys.

Robert N. Guthrie.

Arthur M. Crawford.

PRACTICAL PHARMACY.

PROFESSOR RALPH STOCKMAN, M.D.

Summer Session, 1903.

Medallist—Charles S. Thomson.

First-Class Certificate—Matthew J. Stewart.

Second-Class Certificates.

Robert S. M'Kim, M.A.

Thomas B. Smith.

Peter Mitchell, M.A.

BOTANY.

PROFESSOR F. O. BOWER, Sc.D., F.R.S.

Summer Session, 1903.

SYSTEMATIC.

Medallist—David A. Thomson, M.A.

First-Class Certificates.

James Cairns.

Ralph M. F. Picken.

Second-Class Certificates.

Robert D. Watt, M.A., }
 Hugh J. Thomson, } Equal.
 Robert M. Morison.
 Thomas Miller.
 James B. Galbraith.

James H. Martin,
 Archibald C. Munro, } Equal.
 Lawrence Storey,
 Matthew Young.

PRACTICAL.

Medallist—James Cairns.

First-Class Certificates.

Hugh J. Thomson.

Matthew Young.

Second-Class Certificates.

Andrew J. Hutton.

Thomas E. Gray,
 Ralph M. F. Picken, } Equal.

HERBARIUM PRIZE.

No competition.

ZOOLOGY.

PROFESSOR JOHN GRAHAM KERR, M.A.

SYSTEMATIC.

William Hunter Medal—Ralph M. F. Picken.

First-Class Certificates (in order of merit).

John L. Boyd,
 Benjamin Hutchison, } Equal.
 Robert M. Morison, M.A., }

Murray Macgregor.
 Walter H. Kiep, } Equal.
 Thomas Miller, }

Second-Class Certificates (in order of merit).

David Anderson.
 Thomas E. Gray.
 Archibald C. Munro.
 William A. Muir.

James Carrick,
 John Young, } Equal.
 Josiah S. Harbinson,
 John Fotheringham, }
 Peter R. M'Naught, } Equal.
 Adam Patrick, }

PRACTICAL.

Summer Session, 1903.

First-Class Certificates.

John R. Govan.

Wallace W. Adamson.

Second-Class Certificates (arranged alphabetically).

John Fotheringham.
Lawrence Storey.

Charles P. Williamson.

Winter Session, 1903-1904.

William Hunter Medal and Special Prize—David Y. Buchanan.

First-Class Certificates (arranged alphabetically).

John L. Boyd.
Thomas Miller.

Ralph M. F. Picken.

Second-Class Certificates (arranged alphabetically).

John Cruickshank.
Arthur D. Downes.
Thomas E. Gray.
Josiah S. Harbinson.
Alexander M. Kennedy.
Walter H. Kiep.

Murray Macgregor.
Kenneth C. Middlemiss.
Archibald C. Munro.
Albert R. Paterson.
John F. Steven, M.A.
Hugh C. Storrie.

ADVANCED CLASS.

Winter Session, 1903-4.

First-Class Certificate.

Ralph M. F. Picken.

Second-Class Certificate.

David Arthur.

PHYSICS.

Lecturer—JAMES W. PECK, M.A.

Summer Session, 1903.

Medallists—

Archibald C. Munro.	} Equal.
Matthew Young.	

First-Class Certificates (in order of merit).

James Cairns.
William R. Cammock, } Equal.
John Young,

Richard Rae.
Thomas H. Campbell.

Second-Class Certificates (in order of merit).

William M. Elliott.
Donald Duncan.
John L. Boyd, } Equal.
David Manson, }
Thomas E. Gray.
Walter H. Kiep, } Equal.
John M. Taylor, }

James Carrick.
Isaac Papiermeister.
Campbell K. Stevenson.
James W. M'Leod,
James H. Martin, } Equal.
Benjamin Robertshaw, }
Alexander Scott.

CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

Joseph Black Medal and George Roger Muirhead Prize.

Alexander D. Ross.

First-Class Certificates.

Arthur J. Berry.
Alfred Davidson.
Andrew Hutchison.

John Jackson.
Alexander D. Ross.
John F. Tinto.

Robert R. Bow.
 John H. Brightman.
 John Cruickshank.
 James K. Dunlop.
 James M. Frew.
 Thomas B. Maxwell.

Second-Class Certificates.

Alfred I. Steven.
 George D. C. Stokes.
 Charles A. Taylor.
 James Thomson, M.A.
 James L. Ure.

PRACTICAL CHEMISTRY.

Summer Session, 1903.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

Joseph Black Medal and First-Class Certificate.

Robert S. Taylor.

Second-Class Certificate.

Allison D. M'Lachlan.

ORGANIC CHEMISTRY.

Lecturer—MATTHEW A. PARKER, B.Sc.

Certificates of Merit.

1. James M. Frew.

2. George D. C. Stokes.

Faculty of Science.

GEOLOGY.

Lecturer—FREDERICK MORT, M.A., B.Sc., F.G.S.

William Hunter Medal—John Frew, M.A.

First-Class Certificates.

John Frew, M.A.

John Anderson, M.A.

ENGINEERING.

PROFESSOR ARCHIBALD BARR, D.Sc., M.Inst. C.E.

George Harvey Prize.

Duncan J. Kerr, Glasgow.

Walker Prizes.

1. Duncan J. Kerr.

3. Bernard P. Haigh, Glasgow.

2. Henry J. M. Cousens, Glasgow.

4. Robert D. Archibald, Glasgow.

Muir Bursaries.

John C. Dunlop, Russia.

Alexander Hutchison, Glasgow.

CLASS IV.

1. Duncan J. Kerr, Glasgow.

2. Henry J. M. Cousens, Glasgow.

Next in Order.

Robert D. Archibald, Glasgow, }
 Bernard P. Haigh, Glasgow, } Equal.
 John M'Cance,

CLASS III.

1. Alexander Hutchison, Glasgow.
2. { Robert D. Archibald, } Equal.
Henry J. M. Cousens, }

Next in Order.

George M. Craig,
John A. MacConnell,) Equal.

CLASS I.

1. Thomas Muirhead, Glasgow.
2. { Charles M'Neil, Glasgow, } Equal.
 { John Thomson, Aberdeen, }

ENGINEERING DRAWING AND DESIGN—SENIOR CLASS.

1. Duncan J. Kerr, Glasgow. 2. Bernard P. Haigh, Glasgow.

Next in Order.

Attilano C. d'Oliveira.

Michael Spartali.

ENGINEERING DRAWING AND DESIGN—JUNIOR CLASS.

1. John C. Dunlop, Russia. 2. John Thomson, Aberdeen.

Next in Order.

Robert C. Houston.

ENGINEERING LABORATORY—SENIOR.

1. { Henry J. M. Cousens, } Equal.
{ Bernard P. Haigh, }

Next in Order.

Duncan J. Kerr.

ENGINEERING LABORATORY—JUNIOR.

1. Thomas Muirhead.
2. { John C. Dunlop, } Equal.
 { John Thomson, }

Next in Order.

Frank Aust.

ELECTRICAL ENGINEERING.

Lecturer—JAMES BLACKLOCK HENDERSON, D.Sc.

JUNIOR CLASS.

Matthew G. Anderson,	} Equal.	John C. Dunlop.
Bernard P. Haigh,		John Thomson.

SENIOR CLASS.

John M'Cance.

Bernard P. Haigh.

Robert D. Archibald.

MINING ENGINEERING.

Lecturer—CHARLES LATHAM, M.Inst.C.E.

CLASS I.

1. William Logan, Glasgow. 2. Ernest S. Palmer, Glasgow.

Next in Order of Merit.

William M'Creath, Glasgow.

CLASS II.

1. Alexander R. Couper, Glasgow.

Next in Order of Merit.

James Mackie, Beith.

CLASS III.

1. Alexander R. Couper, Glasgow.

NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

PROFESSOR J. H. BILES, Mem. Counc. I.N.A., M.I.C.E., LL.D.

Kirk Memorial Prize.

Ejnar Bondegaard, Denmark.

SENIOR CLASS.

Ejnar Bondegaard, Denmark.

JUNIOR CLASS.

Diderik E. Finne, Norway.

DRAWING CLASS.

Robert E. Anderson, New Jersey, U.S.A.

Faculty of Arts.

HISTORY.

PROFESSOR DUDLEY J. MEDLEY, M.A.

ORDINARY CLASS.

Prizes.

- | | | | |
|-------------------------------|----------|--------------------------------|----------|
| 1. { Octavia J. R. Bennett, } | { Equal. | 5. { Elsie Fraser Macdonald, } | { Equal. |
| { Isabella M. Milligan, } | | { David N. Strathie, } | |
| 3. { Henry G. B. Spens, } | { Equal. | 7. { David T. Leggat, } | { Equal. |
| { William D. White, } | | { William J. Dow, } | |

Certificates of Merit.

William Barclay.

George P. Insh, }

Robert M'Kinlay, } Equal.

John R. Brown.

John M. Munro.

Jeannie Burn.

MATHEMATICS.

PROFESSOR WILLIAM JACK, M.A., LL.D., D.Sc.

ADVANCED HONOURS.

1. John Miller (Cunninghame Gold Medal and First Prize).
2. Thomas M. MacRobert.

INTERMEDIATE HONOURS, DIVISION A.

1. *Leonard J. Russell.
2. Elizabeth G. Morison.
3. John M'Whan.

*Mr. Russell obtains the Senior Muir Bursary in Mathematics.

INTERMEDIATE HONOURS, DIVISION B.

1. William B. Donald, 2. Alfred I. Steven.

CLASS II. (A, B, and Queen Margaret).

1. *John H. Maxwell.
2. { Oswald J. Gardner.
Margaret B. Moir.
4. { David B. Meek.
James D. Paterson.

* Mr. Maxwell obtains the Junior Muir Bursary in Mathematics.

First-Class Certificates (with distinction).

John Jackson (II. A.).	Isabella M. Ross (Q. M.).
John Lamb (II. B.).	Elizabeth F. Stevenson (Q. M.).
Dorothy G. Reid (Q. M.).	Annie M. Macphail (Q. M.).
Walter S. L. Dalgleish (II. B.).	Margaret Gordon (Q. M.).
Douglas D. Robertson (II. B.).	

Summer Session, 1903.

Lecturers—DAVID K. PICKEN, M.A., and ROBERT J. T. BELL, M.A., B.Sc.

1. {John R. Brown, } Equal.
 {John C. Rollo, }

NATURAL PHILOSOPHY.

PROFESSOR ANDREW GRAY, M.A., LL.D., F.R.S.

ORDINARY CLASS.

Prizes.

1. John M'Whan, Cambuslang (Cleland Gold Medal).
2. { James Paul, Coatbridge.
Hugh Smith, Kilmarnock.
5. James Thomson, Millerston.
6. Thomas Duncan, Bannockburn.
7. Arthur J. Berry, Glasgow.
- Henry Lambie, Paisley.

First-Class Certificates (in alphabetical order).

Alexander G. K. Allison.	Charles G. G. Helme.
Andrew T. Clark.	Elizabeth G. Morison.
Henry R. Climie.	Malcolm Pollock.
William C. Crockatt.	James Thomson, M.A., Glasgow.
James K. Dunlop.	James Williamson.

HIGHER NATURAL PHILOSOPHY.

SECTION A.

First-Class Certificates.

1. John Miller, Beith—Prize. 2. John F. Tinto. 3. Alexander Hutchison.

SECTION B.

First-Class Certificates.

- | | | | |
|----|------------------------------|----|----------------------|
| 1. | { Alexander Hutchison—Prize. | 6. | John F. Tinto. |
| | { Duncan J. Kerr—Prize. | 7. | James A. M'Harg. |
| 3. | Matthew G. Anderson. | 8. | Andrew Hutchison. |
| 4. | Robert D. Archibald. | 9. | Bernard I. F. Adams. |
| 5. | Leonard J. Russell. | | |

SECOND YEAR STUDENTS.

John Miller, Beith—Prize.

Andrew Henderson.

HONOURS CLASS.

Summer Session, 1903.

Lecturers—JAMES W. PECK, M.A., and JAMES MUIR, B.A., D.Sc.

First-Class Certificates (in order of merit).

1. John Miller.

2. William Miller.

3. George D. C. Stokes.

Second-Class Certificates (in order of merit).

1. Robert Hamilton.

3. James Hunter, M.A.

2. Alexander Ballantyne.

4. John F. Tinto.

PHYSICAL LABORATORY.

Summer Session, 1903.

Prize.

1. Alexander Hutchison.

First-Class Certificate (in alphabetical order).

Henry R. Climie.

John M. Miller.

William C. Crockatt.

Thomas D. K. Murray.

George Green.

Alexander S. Ritchie.

John M. Hattrick.

Hugh Smith.

Archibald Lang, M.A.

Andrew M. Wallace.

Summer Session, 1903.

First-Class Certificates.

1. John M'Cance.

5. John M'Whan.

2. George D. C. Stokes.

6. Gilbert P. Hogg.

3. Alexander Macdonald.

7. George M. Craig.

4. Robert Bilsland.

ELECTRICITY—PURE AND APPLIED.

Lecturer—JAMES MUIR, D.Sc.

First-Class Certificates.

John M'Cance—Prize.

George M. Craig.

Robert D. Archibald.

John Whitehead.

LOGIC AND METAPHYSICS.

PROFESSOR ROBERT LATTA, M.A., D.Phil.

Prizes.

1. William S. Stewart (Buchanan Prize).

2. Leonard J. Russell.

3. Christina B. Watson.

4. William D. White.

5. William Scott (Stonehouse).

6. James Ritchie.

7. { Robert Burns,
Alexander C. Grant, } Equal.9. { James S. MacGillivray, } Equal.
{ William K. White, }

First-Class Certificates of Merit.

John B. Black.	Walter M. MacCulloch.
John R. Brown.	Alexander Mackay.
William R. Campbell.	John H. Maxwell.
John M. Cuthbertson.	John R. Orr.
Gavin M. Donald.	James D. Paterson.
James A. Gordon.	Dugald F. Percy.
George R. Herbertson.	George R. Robertson.
Alexander Hynd.	John C. Rollo.
William Jack.	Isabella M. Ross.
Andrew J. L. Laird.	James G. Russell.
David T. Leggat.	Robert Sheridan.
William M'Adam.	Andrew Templeton.

MORAL PHILOSOPHY.

PROFESSOR HENRY JONES, M.A., LL.D.

HONOURS CLASS.

1. Robert N. Cross (Edward Caird Medal and Mrs. John Caird's Prize of Five Guineas).

ORDINARY CLASS.

Prizes and First-Class Certificates of Merit for General Eminence in the Essays, Exercises, and Examinations in the Class.

- | | |
|-------------------------------------|----------------------------|
| 1. Thomas Stewart (Buchanan Prize). | 6. { Margaret E. M'Kerrow. |
| 2. Henry M. Trafford. | { James G. Russell. |
| 3. Mary S. Mackenzie. | 8. Christina C. M'Ewen. |
| 4. John Miller Hunter. | 9. Isabella S. Burt. |
| 5. John M. Woodburn. | 10. Arthur E. Macgregor. |

First-Class Certificates of Merit.

1. Elias H. Jones (who did not compete for a prize).
2. Margaret M. M. Farquharson.
3. Martha M'Gill.
4. William Scott (Stonehouse).
5. Jeanie Edward.
6. William M'Kelvie.
7. John Lambie.
8. { Agnes C. P. Thomson.
- { John C. Watson.
- { John B. Black.
11. James M'Murdo.

The Prize of Five Guineas given by Mrs. John Caird for Excellence in the Essays of the Class was awarded to Thomas Stewart.

The Prize of Five Guineas given by Mrs. John Caird for Excellence in a Written Examination for Students entering the Honours Class for the first time was awarded to Robert A. C. Macmillan.

POLITICAL ECONOMY.

PROFESSOR WILLIAM SMART, M.A., LL.D., D.Phil.

The Alexander Smart Memorial Prize of £10 (in Books) to the Student who stood First in the Essays.

Elias H. Jones, }
 Thomas Templeton, M.A., } Equal.

CLASS PRIZES.

- | | | | |
|------------------------|----------|--------------------|----------|
| 1. { James Ballantyne, | } Equal. | 3. { Robert Dewar, | } Equal. |
| { Elias H. Jones, | | { James E. Scott, | |
| 5. { John Reid, | } Equal. | | |
| { Robert P. Smith, | | | |

Proxime accesserunt.

Margaret E. M'Kerrow.
Robert M'Kinlay.
William G. Kirk.

David Stenhouse.
Thomas Stewart.

EDUCATION.

Lecturer—JOHN CLARK, M.A.

Prizes.

- | | |
|--------------------------|------------------------|
| 1. John R. Cameron, M.A. | 5. John Mercer Hunter. |
| 2. { Edward S. Matthew, | } Equal. |
| { Thomas Smith, | |
| 4. Jessie G. M. Logan. | 8. Martha M'Gill. |
| | 6. Mary G. Aitken. |
| | 7. William D. Borland. |

A Special Prize was awarded to Samuel F. H. Mackay, M.A.,
who was absent from one Examination.

First-Class Certificates.

Mary C. Biggar, M.A.,	} Equal.	Ewen M'Kinnon.
Agnes C. S. Brown,		Christina C. M'Ewen.
Margaret S. Morton.		Annie Yuill.
Elsie Frame Macdonald,	} Equal.	
Catherine Campbell,		

Essay Prizes.

- | | | | |
|---------------------------------|----------|--------------------------|----------|
| 1. { Samuel F. H. Mackay, M.A., | } Equal. | | |
| { John R. Cameron, M.A., | | | |
| 3. { Christina C. M'Ewen, | } Equal. | 6. { Margaret S. Morton, | } Equal. |
| { Mary C. Biggar, M.A., | | { Margaret H. Carswell, | |
| { Elsie Frame Macdonald, | | { John Mercer Hunter, | |
| | | { Thomas Smith, | |

HUMANITY CLASS.

PROFESSOR GEORGE G. RAMSAY, M.A., LL.D., Litt.D.

Prizes for General Excellence in the Work of the Session.

HONOURS CLASS, 1 P.M.

Muirhead Prizes.

1. Euphemia W. Sutherland (Riebeck College).
2. John C. Rollo, Glasgow (Whitehill School).
3. James M. Barclay, Beith (Spier's School).

Distinguished.

John M'Bryde, Stirling (Stirling High School).
James D. Paterson (Greenock Academy).

SENIOR CLASS, 8 AND 9 A.M., AND Q. M. COLLEGE.

The Cowan Gold Medal—Henry I. Cunningham, Muirkirk (Ayr Academy).

Ordinary Prizes.

2. Thomas N. McIlravey, Greenock (Greenock Academy).
3. George Anderson, Glasgow (Hillhead High School).
4. Oswald J. Gardner, Glasgow (Hutchesons' Grammar School).
5. James Keith, Hamilton (Hamilton Academy).
6. Charles Cameron, Glasgow (Rothsay Academy).
7. William J. Merry, Motherwell (Dalziel High School).
8. Margaret Gordon.
1. Louis C. Phillips, Ayr (Ayr Academy).

Prizes for Latin Prose Composition.

Section I.—A.

1. John C. Rollo, Glasgow.
2. Neil Conley, Campbeltown (Campbeltown Grammar School).

Distinguished.

William J. Auld, Greenock (Greenock Academy).
 William M. Ogilvy, Coatbridge (Hutchesons' Grammar School).

Section I.—B.

Wilfred G. Maclean, Glasgow (Dumfries Academy).

Section II.

James Keith, Hamilton.

Distinguished.

George Anderson, Glasgow.

VACATION EXERCISE.

Latin Essay on "Party and Faction" (open to Classes of 1902-3).
 William J. Auld, Greenock (Greenock Academy).

LATIN BLACKSTONE EXAMINATION.

Cowan Gold Medal.

William M. Ogilvy, Coatbridge.

Summer Session, 1903.

Lecturer—DAVID A. SLATER, M.A.

Prizes.

Arthur S. Wallace.

Andrew J. L. Laird.

First-Class Certificate.

Charles K. Meek.

GREEK.

PROFESSOR JOHN S. PHILLIMORE, M.A.

HONOURS CLASS (First Competitive Year).

First-Class Certificates (in Order of Merit).

William M. Ogilvy (Scott-Macfarlan Medallist).

Charles G. G. Helme.

Wilfred G. Maclean.

James C. M. Fairlie.

Alexander C. Grant.

Prize for Excellence in Prose.

William M. Ogilvy.

Prize for Excellence in Translations (Mr. Mackay's Class).

Charles G. G. Helme.

Prize for Excellence in Essay.

William M. Ogilvy, } Equal.
Charles G. G. Helme, }

Prize for a Vacation Exercise in Prose.

William J. Auld.

SENIOR CLASS.

Prizes and First-Class Certificates (in Order of Merit).

Thomas N. M'Ilravey (Jeffrey Gold Medallist).

William M'Ewen,	1st { Prizes for General Excellence
Euphemia W. Sutherland (Q.M.C.),	2nd { in all Work.
Mungo T. Archibald.	Henry I. Cunningham.
George Anderson.	William G. Waddell.
John W. Tait.	Elton L. Gueritz.

Prize for Prose.

Mungo T. Archibald.

Prize for Translations.

Mungo T. Archibald.

Prize for Essays.

Thomas N. M'Ilravey.

Prize for Written Examinations.

Euphemia W. Sutherland.

Prizes for Oral Work.

John W. Tait,	} Voted by the Class.
Elton L. Gueritz,	

Blackstone Examination.

Cowan Gold Medal—Adam W. Burnet.

Sandford Scholarship—James C. M. Fairlie.

Proxime accessit—Albert F. L. Brayne.

ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR WALTER A. RALEIGH, M.A.

Prizes.

1. Buchanan Prize—Thomas L. Douglas.
2. { Albert F. L. Brayne.
Edward S. Matthew.
John R. Orr.
5. { John B. Black.
James Hunter, M.A.
7. { William M. Kerr.
John H. Maxwell.
9. { Duncan Blair, M.A.
James Cunnison.
Andrew Templeton.
Arthur Turnbull.

Certificates of Merit.

William J. Dow.
 William M. Fulton.
 George P. Insh.
 Neil M'Caig.

Arthur E. Macgregor.
 John M. Munro.
 Sydney Smith.

First-Class Certificates.

Robert M. Bernard.
 William J. Falside.
 Archibald Lang, M.A.
 David T. Leggat.

Robert W. Murchie.
 George Stewart.
 James Stewart.

FRENCH LANGUAGE AND LITERATURE.

Lecturer—CHARLES MARTIN, MA., O.A.

HONOURS CLASS.

First Prize.

Equal. { Annie J. Arnott (1)—Prize offered by the Minister of Public Instruction in France.
 { Elizabeth W. Scott (2)—Prize offered by the French Branch of the Franco-Scottish Society.

First-Class Certificates.

Thomas Beaumont.
 Ida M. Gordon (1).
 Janet I. Macphail (2).

Annie G. Philip.
 Flora Ritchie.
 Isabella Wilson.

- (1) Also gained an Honourable Mention in the Franco-Scottish Society Inter-University Competition.
 (2) Also gained a Travelling Bursary of £30 in the Franco-Scottish Society Inter-University Competition.

ORDINARY CLASS.

Prizes.

1. John MacLean—Prize offered by the French Branch of the Franco-Scottish Society.
 2. { John Hogg, } Equal.
 { William A. Munro, }
 3. David W. Main.

First-Class Certificates.

John C. Bell.
 Thomas S. Glen.
 John R. Grice.

Henry Lambie.
 Hugh D. Sempill.
 Andrew Wilson.

GERMAN LANGUAGE AND LITERATURE.

Lecturer—G. P. THISTLEWAITE, B.A., Ph.D.

First-Class Certificate.

Ewen M'Kinnon.

WOMEN'S DEPARTMENT.

Faculty of Medicine.

PRACTICE OF MEDICINE.

Lecturer—WALTER K. HUNTER, M.D., D.Sc.

Medal—Elizabeth M. M'Vail.

MIDWIFERY AND GYNÆCOLOGY.

PROFESSOR MURDOCH CAMERON, M.D., and JOHN M. M. KERR, M.B.

Second-Class Certificate.

Jessie D. Rankin, M.A. B.Sc.

INSANITY.

(See under Men's Department).

OPHTHALMOLOGY.

Summer Session, 1903.

Lecturer—A. MAITLAND RAMSAY, M.D.

Prizes.

Jane S. M'Lauchlan.

Robertta Campbell.

First-Class Certificate.

Lily Smellie.

Second-Class Certificates.

Mary Spence.

Jane R. Shaw.

DISEASES OF THE EAR.

Summer Session, 1903.

Lecturer—THOMAS BARR, M.D.

First-Class Certificate.

Annie M. Yates.

PATHOLOGY.

Lecturer—CHARLES WORKMAN, M.D.

Medal—Jeannie T. Clark.

First-Class Certificate.

Elizabeth M. M'Vail.

PRACTICAL PATHOLOGY.

Summer Session, 1903.

Lecturer—CHARLES WORKMAN, M.D.

Medal—Mary Spence.

First-Class Certificate.

Elizabeth M. M'Vail.

MEDICAL JURISPRUDENCE AND PUBLIC HEALTH.

Summer Session, 1903.

PROFESSOR JOHN GLAISTER, M.D., D.P.H. (Camb.), F.R.S.E.

Medal—Mary Spence.

First-Class Certificate.

Elizabeth M. M'Vail (*proxime accessit*).

Second-Class Certificate.

Jeannie T. Clark.

ANATOMY.

Lecturer—THOMAS H. BRYCE, M.A., M.D., F.R.S.E.

SENIOR CLASS.

Medal—Agnes Picken, M.A.

First-Class Certificate—Jeannie M. Andrew.

Second-Class Certificate—Jane I. Robertson, M.A.

JUNIOR CLASS.

Medal—Mabel Foley.

Second-Class Certificates.

Margaretta H. D. Kelly.

Flora Morrison.

EMBRYOLOGY.

Summer Session, 1903.

Lecturer—THOMAS H. BRYCE, M.A., M.D., F.R.S.E.

First-Class Certificate—Agnes Picken, M.A.

Second-Class Certificate—Jeannie M. Andrew.

PHYSIOLOGY.

PROFESSOR JOHN G. M'KENDRICK, M.D., LL.D., F.R.S., and
WALTER COLQUHOUN, M.A., M.B.

First-Class Certificate—Jane I. Robertson, M.A.

PRACTICAL PHYSIOLOGY.

Summer Session, 1903.

PROFESSOR JOHN G. M'KENDRICK, M.D., LL.D., F.R.S., and
WALTER COLQUHOUN, M.A., M.B.

First-Class Certificate—Agnes Picken, M.A.

Second-Class Certificate—Annie R. Hird.

ADVANCED PRACTICAL PHYSIOLOGY.

(See under Men's Department.)

MATERIA MEDICA AND THERAPEUTICS.

Lecturer—WILLIAM MACLENNAN, M.B.

Medal—Agnes Picken, M.A.

PRACTICAL PHARMACY.

Summer Session, 1903.

Lecturer—WILLIAM MACLENNAN, M.B.

Medal—Agnes Picken, M.A.

First-Class Certificates.

Jeannie M. Andrew, } Equal.
Martha M. Buchan, }

BOTANY.

Summer Session, 1903.

SYSTEMATIC.

Lecturer—WILLIAM H. LANG, D.Sc., M.B.

Medal—Muriel Robertson.

First-Class Certificate—Jessie M. M'Leish.

Second-Class Certificates.

Annie P. Irvine.

Margaretta H. D. Kelly.

Jane I. Robertson, M.A.

PRACTICAL.

Second-Class Certificate—Annie P. Irvine.

ZOOLOGY.

Summer Session, 1903.

PROFESSOR JOHN GRAHAM KERR, M.A., AND E. J. BLES, B.A., B.Sc.

SYSTEMATIC.

Second-Class Certificates.

Muriel Robertson.	Kathleen M. Nolan,	} Equal.
	Jane I. Robertson, M.A.,	

PRACTICAL.

Second-Class Certificates (arranged alphabetically).

Kathleen M. Nolan.	Jane I. Robertson, M.A.	Muriel Robertson.
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PHYSICS.

Lecturer—JAMES BLYTH, M.A., LL.D., F.R.S.E.

Medal—Mary L. Wands.

First-Class Certificates.

Mabel Foley.	Margaret Mann.	Jessie C. Russell.
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Second-Class Certificates.

Jeanie W. Jones.	Olive Robertson.
Flora Morrison.	Winifred M. Ross.

CHEMISTRY.

Lecturer—HERBERT W. BOLAM, B.Sc., D.Ph.

SYSTEMATIC CLASS.

Medal—Jessie C. Russell.

Second-Class Certificates.

Mabel Foley.	Janet G. M'Gown.
Mary L. Wands.	Jeanie W. Jones.
Winifred M. Ross.	Helen M. Armour, M.A.
Margaret Muir.	

PRACTICAL CLASS.

First-Class Certificates.

Mabel Foley.	Jessie C. Russell.	Annette M'Combie.
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Second-Class Certificates.

Jeanie W. Jones,	} Equal.
Jeannie P. Rose,	
Mary L. Wands.	
Olive Robertson,	} Equal.
Winifred M. Ross,	
Jenny G. Wilson.	
Margaretta H. D. Kelly.	
Flora Morrison.	

Faculty of Arts.

HISTORY.

(See under Men's Department.)

MATHEMATICS.

(See under Men's Department.)

NATURAL PHILOSOPHY.

(See under Men's Department.)

LOGIC AND METAPHYSICS (AT THE UNIVERSITY).

(See under Men's Department.)

LOGIC AND METAPHYSICS (AT QUEEN MARGARET COLLEGE).

Lecturer—NORMAN D. SMITH, M.A., D.PHIL.

Prize—Jeanie B. Watt.

First-Class Certificates.

Jeanie G. Neil.

Margaret M. Gray.

Catherine H. Jockel.

Wilhelmina R. Brand.

MORAL PHILOSOPHY (AT THE UNIVERSITY).

(See under Men's Department.)

MORAL PHILOSOPHY (AT QUEEN MARGARET COLLEGE).

Lecturer—ROBERT A. DUFF, M.A.

First-Class Certificates.

Mary G. Aitken.

Mary M. L. Johnstone.

POLITICAL ECONOMY.

(See under Men's Department.)

EDUCATION.

(See under Men's Department.)

LATIN.

(See under Men's Department.)

GREEK.

(See under Men's Department.)

ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR WALTER A. RALEIGH, M.A.; DAVID H. CRAWFORD, M.A.;
AND D. NICHOL SMITH, M.A.

Prizes.

- | | |
|---------------------------|--------------------------|
| 1. Mary C. Waddell, | } Nichol Memorial Prize. |
| 2. Octavia J. R. Bennett, | |
| 3. Mary I. M.-Stuart. | |
| 4. Janetia I. W. Mackie. | |
| 5. Elsie Frame Macdonald. | |

First-Class Certificates.

Jessie G. Cameron.
Jane A. Keddie.
Hilda O. Lindsay.

Christian W. McNabb.
Margaret H. Pearson.
Jenny T. Robertson.
Edith M. Whitson.

FRENCH LANGUAGE AND LITERATURE.

Lecturer—CHARLES MARTIN, M.A., O.A.

HONOURS CLASS.

(See under Men's Department.)

ORDINARY CLASS.

First Prize.

Annie M. Macgregor.

(Prize offered by the French Branch of the Franco-Scottish Society. Also
gained £30 Travelling Bursary in the Inter-University Competition of the
Franco-Scottish Society.)

Second Prize.

Elizabeth A. Forrest,	} Equal.
Mary M. Waddington,	
Jeanie B. Watt,	

Third Prize.

Jeanie A. T. Hewitt,	} Equal.
Helen M. Hunter,	
Agnes Kivlichan,	
Christina C. M'Ewen,	
Helen A. Mitchell,	

First-Class Certificates.

Mary F. Armour.
Margaret R. Cowie.
Rhoda G. Harrison.
Adelaide Henderson.
Annie P. Irvine.
Catherine H. Jockel.
Jane A. Keddie.

Chrissibelle Macdonald.
Mary Merry.
Annie S. Robertson.
Jenny T. Robertson.
Mary D. Sage.
Jessie M. Smith.
Annie Thomson (Glasgow).
Justina T. Weir.

GERMAN LANGUAGE AND LITERATURE.

Lecturer—G. P. THISTLETHWAITE, B.A., PH.D.

HONOURS CLASS.

Prize.

Annie J. Arnott,	} Equal.
Elizabeth W. Scott,	

First-Class Certificates.

Isabella Wilson.

Annie G. Philip.

ORDINARY CLASS.

Prizes.

- | | |
|----|-------------------------|
| 1. | { Mary V. Hunter. |
| | { Flora Ritchie. |
| 2. | { Elizabeth A. Forrest. |
| | { Helen A. Mitchell. |
| | { Mary M. Waddington. |
| 3. | { Grace Oliphant. |
| | { Mary I. Moody-Stuart. |

First-Class Certificates.

Jeanie A. T. Hewitt.
Annie M. Macgregor.

Margaret S. Morton.
Jeanie G. Neil.

XIII.—EXAMINATION QUESTIONS.

I. PRELIMINARY EXAMINATION IN ARTS AND SCIENCE.

March, 1904.

ENGLISH.

FIRST PAPER—TWO HOURS.

(FIVE, and not more than FIVE, questions are to be answered. Questions 1, 2, and 6 must be answered by all.)

1. Write an essay of from two to three pages on *one* of the following subjects:

- (1) The best holiday you have ever spent.
- (2) The advantages of having a hobby.
- (3) The life and writings of your favourite author.

2. Paraphrase:

If to be absent were to be
 Away from thee;
 Or that when I am gone
 You or I were alone;
 Then, my Lucasta, might I crave
 Pity from blustering wind or swallowing wave.
 But I'll not sigh one blast or gale
 To swell my sail,
 Or pay a tear to 'suage
 The foaming blue god's rage;
 For whether he will let me pass
 Or no, I'm still as happy as I was.
 Though seas and land betwixt us both,
 Our faith and troth,
 Like separated souls,
 All time and space controls:
 Above the highest sphere we meet
 Unseen, unknown; and greet as Angels greet.
 So then we do anticipate
 Our after-fate,
 And are alive i' the skies,
 If thus our lips and eyes
 Can speak like spirits unconfined
 In Heaven, their earthy bodies left behind.

3. Derive *eight* of the following words: Squire, April, aim, constable, teetotal, poignant, pilgrim, amenable, livelihood, lieutenant, voyage, subtle.

4. Define and exemplify: Climax, anti-climax, metonymy, mixed metaphor, antithesis, personification.

5. Correct or improve the following, giving reasons for any change made:

(1) With respect to provincial plate, many pieces exist long after 1300, which are stamped with the maker's mark alone.

(2) On arriving at the chapel, which was the goal of the pilgrimage, the walls were found covered with pictorial representations of the Turkish atrocities in Herzegovina.

(3) The congregation was not very numerous, and on breaking up, several of them lingered behind.

(4) The joy unequalled, if its end it gain,
 And if it lose, attended with no pain.

6. Give a general analysis of the following passage, and parse the words in italics:

Thy soul within *such* silent pomp *did* keep
As if humanity were lull'd *asleep*;
So gentle was thy pilgrimage *beneath*,
Time's unheard feet *scarce* make less noise,
Or the soft journey which a planet goes:
Life seemed *all* calm as its last breath.
A still tranquillity so hushed thy breast,
As if some Halcyon were its guest,
And there had built her nest;
It hardly now enjoys a greater rest.

SECOND PAPER—Two Hours.

EIGHT, and not more than EIGHT, questions to be answered. Of these, THREE must be taken from Section A (and of the three 5 must be one), THREE from Section B, and TWO from Section C.

A.

1. Give a short account of any *three* of the following: *Caleb Williams*, *Fagin*, *Sohrab and Rustum*, *William de la Marek*, *Endymion*, *Florizel*, *She Stoops to Conquer*, *Gareth*, *Barry Lyndon*.

2. Write a character sketch of *Hotspur* or *Falstaff*, with references to illustrative pages.

3. Give an account of either *Francis Osbaldistone's* life at *Osbaldistone Hall*, or his adventures in the *Highlands of Scotland*.

4. What characteristics of style made *Macaulay* a popular essayist? Illustrate from the *Milton*.

5. Annotate fully :

- (a) "To put down Richard, that sweet, lovely rose,
And plant this thorn, this canker, Bolingbroke."
- (b) "Turk Gregory never did such deeds in arms as I have done this day."
- (c) Fifth-monarchy men shouting for King Jesus.
- (d) They had their anchorites and their crusades, their Dunstons and their De Montforts, their Dominics and their Escobars.
- (e) "It's no that dooms far frae my ain parish of Dreepdaily."
- (f) "Then, traitor, die in your treason."

B.

(In this Section Candidates must take the questions of only one period.)

FIRST PERIOD, 55 B.C. TO 1603 A.D.

1. Write notes on *four* of the following: The Roman Wall, Brunanburh, Risings against William I. (The Conqueror), Constitutions of Clarendon, Richard I., William I. of Scotland, Evesham, Poitiers.
2. Write an account of Richard II. or Henry V.
3. Write a short essay on the Wars of the Roses, or The Reformation in England.

SECOND PERIOD, 1603 TO 1707.

1. Write notes on *four* of the following: James I.'s Parliament, The Tables, The Independents, Montrose, Drumclog, Clarendon Code, Bloody Assize, Declaration of Indulgence.
2. Write an account of Cromwell or Shaftesbury.
3. Write a short essay on the growth of Parliamentary power in the 17th century.

THIRD PERIOD, 1707 TO 1832.

1. Write notes on *four* of the following: Massacre of Glencoe, Dettingen, Junius, Sieges of Gibraltar, Walcheren Expedition, Warren Hastings, Orders in Council, Cato Street Conspiracy.
2. Write an account of George III. or Clive.
3. Write a short essay on the progress of Parliamentary reform in the period 1707 to 1832, or on the wars between Britain and France during the same period.

C.

1. Describe the mountain systems of Europe.
2. Give a general account of our South African colonies, dealing with their physical features, climate, resources, industries, and suitability for colonists.
3. Give an account of the chief occupations of the people in different parts of the British Islands, and show why occupations are thus distributed.
4. Give an account of British possessions in Asia, excluding India.

LOWER LATIN—THREE HOURS.

I. TRANSLATION.

1. Translate :

Negotiations.

Parantibus Achaeis Aetolisque ad ea respondere cum prope occasum sol esset, dilato in posterum diem colloquio, Philippus in stationem, ex qua profectus erat, Romani sociique in castra redierunt. Quintius postero die ad Nicaeam—is enim locus placuerat—ad constitutum tempus venit: Philippus nullus usquam, nec nuntius ab eo per aliquot horas veniebat; et iam *desperantibus* venturum repente apparuerunt naves. Atque ipse quidem, “cum tam gravia et indigna *imperarentur*, inopem consilii diem se consumpsisse deliberando” aiebat. Vulgo credebatur de industria rem in serum tractam, ne tempus dari posset Achaeis Aetolisque ad respondendum, et eam opinionem ipse affirmavit, petendo, ut summotis aliis, ne tempus *tereretur*, et aliqui finis rei imponi posset, cum ipso imperatore Romano liceret sibi colloqui. Id primo non *acceptum*, ne excludi *colloquio* viderentur socii: dein, cum haud absisteret petere, ex omnium consilio Romanus imperator cum Ap. Claudio tribuno militum ceteris summotis ad extremum litus processit.

2. Parse fully the five words printed in *italics* in the passage above, explaining the construction in which they stand.

II. LATIN PROSE.

Translate into Latin Prose :

It is well for us sometimes to see ourselves as others see us; and as we English esteem ourselves very highly, and think that no people can be compared to ours, I will tell you what a Chinaman who had been visiting England (*Anglia*) wrote home lately to his friends about us: “The English do not know how to amuse themselves. They never have a happy time sitting quietly on the graves of their ancestors. They run about hither and thither, and kick something round and hard. Sometimes they walk long distances into the country; but that seems to be a religious duty, for they wave sticks (*baculum*) in the air, and then bury something in the earth. They have no dignity; for they sit down to eat along with women, and will suffer the women to be served before they eat themselves.”

III. GRAMMAR.

1. Give (a) genitive singular and meaning of *mel*, *laurus*, *flumen*, *robur*; (b) nominative singular and gender of *genua*, *fabrum*, *sideribus*, *carne*.

2. Give (a) third singular perfect indicative active, and third singular imperfect subjunctive active, of *sco*, *nolo*, *misceo*, *sentio*, *aufero*, *tango*; (b) first plural present subjunctive, and the perfect participle, of *fruo*, *patior*, *orior*, *cohorto*, *irascor*, *audeo*.

3. Give the comparative of *acrior*, *maior*, *stultior*, *niger*, *pius*, *juvenis*, *audax*, *amans*.

4. Write down the Latin for: twelve hundred soldiers; from the top of the mountain; anyone at all; which of the two brothers?

5. Construct two short sentences to illustrate the difference between the gerund and the gerundive.

6. Turn into *oratio obliqua* after a historic verb (*e.g.*, *dixerunt*): Nobis est in animo iter per provinciam facere propterea quod aliud iter habemus nullum: rogamus ut id nobis facere liceat.

7. Give the meaning of the following:

- (a) A.D. IV. Kal. Sext.
- (b) Pater filium oravit ut sibi consuleret.
- (c) Mea interest te valere.
- (d) Scio quantum ille scit.

IV. SENTENCES.

1. When he comes he will tell you what he did.
2. Do not forget that you will have to fight so many foes.
3. He warned them not to put their trust in princes.
4. It is lawful for me to be angry, but you ask if it is seemly.

HIGHER LATIN.

FIRST PAPER—Two Hours.

I.

1. Translate:

Ibi permissio, ut, seu dicere prius, seu audire mallet, ita coepit tyrannus: "Si ipse per me, T. Quincti, vosque, qui adestis, causam excogitare, cur mihi aut indixissetis bellum, aut inferretis, possem; tacitus eventum fortunae meae exspectassem. Nunc imperare animo nequivi, quin, priusquam perirem, cur periturus essem, scirem. Et, hercule, si tales essetis, quales esse Carthaginienses fama est, apud quos nihil societatis fides sancti haberet; in me quoque vobis quid faceretis minus pensi esse, non mirarer. Nunc, quum vos intueor, Romanos esse video, qui rerum divinarum foedera, humanarum fidem socialem sanctissimam habeatis. Quum me ipse respexi, eum esse spero, cui et publice, sicut ceteris Lacedaemoniis, vobiscum vetustissimum foedus sit: et meo nomine privatim amicitia ac societas, nuper Philippi bello renovata. At enim ego eam violavi et everti, quod Argivorum civitatem teneo. Quomodo hoc tuear? re, an tempore? Res mihi duplicem defensionem praebebat."

Liv. xxxiv. 31.

2. Translate :

Mars visits his Temple in Rome.

Fallor, an arma sonant? non fallimur, arma sonabant :

Mars venit et veniens bellica signa dedit.

Ultor ad ipse suos caelo descendit honores,

Templaque in Augusto conspicienda foro.

Et deus est ingens et opus. Debebat in urbe

Non aliter nati Mars habitare sui.

Digna Giganteis haec sunt delubra tropaeis :

Hinc fera Gradivum bella movere decet,

Seu quis ab Eoo nos impius orbe lacesset,

Seu quis ab occiduo sole domandus erit.

Prospicit Armipotens operis fastigia summi

Et probat invictos summa tenere deos.

Prospicit in foribus diversae tela figurae,

Armaque terrarum milite victa suo.

Hic videt Aenean oneratum pondere caro,

Et tot Iuleae nobilitatis avos.

II. SENTENCES.

1. Men are required to refrain from conduct for which they have blamed another.

2. I wish you would undertake this business of mine just as if it were your own.

3. If your friend had a better horse than yours, would you prefer your own or his?

4. They would not let him go without hearing if he approved their plan.

5. I was so far from wishing you to come here, that I wrote to stop you.

SECOND PAPER—Two Hours.

I. Translate into Latin Prose :

Everyone knows what a marvellous influence Daniel O'Connell had over an audience. He was once addressing an enormous meeting in Kingstown, and the crowd was so large that people feared for the safety of the building. Just as he was about to speak, a gentleman came up to him and told him that the floor was giving way. Not many persons could have preserved at such a moment the magnificent courage which O'Connell then showed in the face of great peril. Warning the man to keep quiet, he told the audience that the room was too small to hold the number who wished to come in, and that he must make his speech outside. Only a few rose to leave; and as the hall was still packed, O'Connell thought it best to tell them the whole truth. "You are Irishmen," he said, "and therefore brave men. You must leave this room at once. Go out quietly, one by one, until all have gone. I shall be the last to leave." His advice was followed, and as O'Connell walked across the floor, the broken beams gave way.

II. GRAMMAR, ETC.

1. Give:

- (a) Abl. sing. of *impar*, *rediens*, *quercus*, *tellus*.
 (b) 3rd sing. perf. subj. act. of *lucesso*, *haurio*, *increpo*, *faveo*.
 (c) 3rd plur. imperf. subj. of *morior*, *adorior*, *queror*, *veneo*.
 (d) Comparative of *aeger*, *antiquus*, *vetus*, *cito*.

2. Write short sentences (translating your sentence in each case) to illustrate the construction of *expers*, *prae*, *memini*, *penes*, *utor*, *parco*, *lugeo*.

3. Distinguish *cupido* and *cupido*, *oblitus* and *oblitus*, *vetēris* and *vetēris*.

Scan: (a) *O felix una ante alias Priameia virgo.*

(b) *Saepe ego tentavi curas depellere vino,
 At dolor in lacrimas verterat omne merum.*

4. Translate carefully:

- (a) *Urbem matri seu novercae relinquit.*
 (b) *Vellem me ad cenam invitasses.*
 (c) *Post diem tertium gesta res est quam dixerat.*
 (d) *Ita me gessi ne tibi pudori essem.*
 (e) *Hannibal omnia priusquam excederet pugna erat expertus.*

5. Explain the meaning of any four of the following: *diem dicere*—*non esse solvendo*—*tabulae novae*—*comitia centuriata*—*prorogatio imperii*—*praetor peregrinus*—*ius civile*.

LOWER GREEK.—THREE HOURS.

I. Translate:

After the battle of Leuktra the Thebans send ambassadors to Athens and to Jason.

Οἱ δὲ Θηβαῖοι εὐθὺς μὲν μετὰ τὴν μάχην ἐπεμψαν εἰς Ἀθήνας ἀγγελον ἐστεφανωμένον, καὶ ἅμα μὲν τῆς νίκης τὸ μέγεθος ἔφραζον, ἅμα δὲ βοηθεῖν ἐκέλευον, λέγοντες ὡς νῦν ἐξείη Λακεδαιμονίους πάντων ὧν ἐπεποιήκεσαν αὐτοῖς τιμωρήσασθαι. τῶν δὲ Ἀθηναίων ἡ βουλὴ ἐτίγχανεν ἐν ἀκροπόλει καθήμενη. ἐπεὶ δ' ἤκουσαν τὸ γεγενημένον, ὅτι μὲν σφόδρα ἠνιάθησαν πᾶσι δῆλον ἐγένετο· οἷτε γὰρ ἐπὶ ξένια τὸν κῆρυκα ἐκάλεσαν, περὶ τε τῆς βοηθείας οὐδὲν ἀπεκρίναντο. καὶ Ἀθήνηθεν μὲν οὕτως ἀπήλθεν ὁ κῆρυξ. πρὸς μὲντοι Ἰάσονα, σύμμαχον ὄντα, ἔπεμπον σπονδῇ οἱ Θηβαῖοι, κελεύοντες βοηθεῖν, διαλογιζόμενοι πῇ τὸ μέλλον ἀποβήσονται. ὁ δ' εὐθὺς τρυφεῖς μὲν ἐπλήρου, ὡς βοηθήσων κατὰ θάλατταν, συλλαβὼν δὲ τὸ τε ξυγκὸν καὶ τοὺς περὶ αὐτὸν ἰππέας, καίπερ ἀκηρύκτῳ πολέμῳ τῶν Φωκίων χρωμένων περὶ διεπορεύθη εἰς τὴν Βοιωτίαν, ἐν πολλαῖς τῶν πόλεων πρότερον ὀφθεῖς ἢ ἀγγελλοίς ὅτι πορεύοιτο. πρὶν οὖν συλλέγεσθαι τι πανταχόθεν ἔφθανε πόρρῳ γιγνόμενος, δῆλον ποιῶν ὅτι πολλαχοῦ τὸ ταχος μάλλον τῆς βίας διαπράττεται τὰ δέοντα.

ἀνάσσειν, to be distressed; ἀκηρύκτος, implacable.

II. GRAMMAR.

1. Give :

- (a) Genitive and accusative singular of Σοφοκλῆς, δεσπότης, ἐγώ, αὐτός.
 (b) Stem and dative plural of ἔθνος, πούς, ἀνὴρ, μείζων.
 (c) Meaning and gender of θεός, γένος, στάσις, νῆσος.
 (d) Accusative singular masculine and dative singular feminine of ἰγυῆς, ὄσσις, ἀπλοῦς, εἷς.

2. Compare ἄφθονος, ἄλγεινός, σώφρων, εὖνους, ἡδέως, εὖ, ταχέως, σοφῶς.

3. Give the Greek for tenth, seventy, seventieth, nine times, one-half, four-fifths.

4. Give :

(a) 3rd singular perfect indicative passive of πλέκω, ἀγγέλλω, πείθω, πέμπω.

(b) 3rd singular future indicative active of δέρω, βιβάζω, ελαίνω, κομίζω.

(c) Aorist infinitive passive of βάλλω, εἰρίσκω, λαμβάνω, μιμνήσκω.

(d) Dative singular masculine of aorist participle active of κομίζω, εἰρίσκω, πλέκω, δίδωμι.²

5. Parse, giving the 1st singular present indicative active of the verb to which each form belongs, ἔστασαν, κατάθου, ἤκε, ἤκει, ἦα, εἰδῆς.

6. Distinguish between :

- (a) πρὸς τοῖτοis ἔλεγε τάδε and πρὸς ταῦτα ἔλεγε τόδε.
 (b) ἐπὶ τῆς πόλεως ἔπλευσεν and ἐπὶ τὴν πόλιν ἔπλευσεν.
 (c) παρὰ τοῦ βασιλέως τοὺς δούλους ἤγαγεν and παρὰ τὸν βασιλέα τοὺς δούλους ἤγαγεν.

7. Distinguish between :

- (a) αὐτὸν τὸν ἄνδρα ἀπέκτειναν and τὸν αὐτὸν ἄνδρα ἀπέκτειναν.
 (b) οὐ ποιήσας ταῦτα ἀποθανεῖται and μὴ ποιήσας ταῦτα ἀποθανεῖται.
 (c) οἶδε τοῦτο ποιῶν and οἶδε τοῦτο ποιεῖν.
 (d) οὐκ ἐποίησεν οὐδέν and οὐδέν οὐκ ἐποίησεν.
 (e) τὸ ἄλλο στράτευμα ἐπέμφθη and τὸ ἕτερον στράτευμα ἐπέμφθη.

III. Translate into Greek :

1. Call no man happy before he dies.
2. I will come again to do what you want.
3. When you have done this you may go.
4. This being so, what are we to do?
5. If you were both free and rich, what would prevent you from being happy?

HIGHER GREEK.

FIRST PAPER—Two Hours.

I. Translate :

Past Dangers of Athens.

Οἱ γὰρ πατέρες οἱ ἡμέτεροι γενομένων τῇ πόλει κακῶν μεγάλων, ὅτε οἱ τύραννοι μὲν εἶχον τὴν πόλιν, ὁ δὲ δῆμος ἔφειγε, νικῆσαντες μαχόμενοι τοὺς τυράννους ἐπὶ Παλληνίῳ, στρατηγοῦντος Λεωγόρου τοῦ προπάππου τοῦ ἐμοῦ

καὶ Χάρου οὐ ἐκεῖνος τὴν θυγατέρα εἶχεν ἐξ ἧς ὁ ἡμέτερος ἦν πάππος, κατελθόντες εἰς τὴν πατρίδα τοὺς μὲν ἀπέκτειναν, τῶν δὲ φυγὴν κατέγνωσαν, τοὺς δὲ μένειν ἐν τῇ πόλει εἰσάσαντες ἠτίμωσαν. Ὑστερον δὲ ἡνίκα βασιλεὺς ἐπεστράτευσεν ἐπὶ τὴν Ἑλλάδα, γρόντες τῶν συμφορῶν τῶν ἐπιουσῶν τὸ μέγεθος καὶ τὴν παρασκευὴν τοῦ βασιλέως, ἔγνωσαν τοὺς τε φεύγοντας καταδέξασθαι καὶ τοὺς ἀτίμους ἐπιτίμους ποιῆσαι, καὶ κοινὴν τὴν τε σωτηρίαν καὶ τοὺς κινδύνους ποιήσασθαι. Πράξαντες δὲ ταῦτα, καὶ δόντες ἀλλήλοις πίστει καὶ ὅρκους μεγάλους, ἡξίουσαν σφᾶς αὐτοὺς προτάξαντες πρὸ τῶν Ἑλλήνων ἀπάντων ἀπαντῆσαι τοῖς βαρβάροις Μαραθωνάδε, νομίσαντες τὴν σφετέραν αὐτῶν ἀρετὴν ἱκανὴν εἶναι τῷ πλῆθει τῷ ἐκείνων ἀντιτάξασθαι· μαχεσάμενοί τε ἐνίκων καὶ τὴν τε Ἑλλάδα ἡλευθέρωσαν καὶ τὴν πατρίδα ἔσωσαν. Ἔργον δὲ τοιοῦτον ἐργασάμενοι, οὐκ ἡξιώσαντι τῶν προτέρων γενομένων μνησικακῆσαι.

II. Translate :

A Mother sacrifices her Daughter for the State.

ἐγὼ δὲ δώσω τὴν ἐμὴν παιδα κτανεῖν.
 λογίζομαι δὲ πολλά· πρῶτα μὲν πόλιν
 οὐκ ἂν τις ἄλλην τῇσδε βελτίω λάβοι,
 ἢ πρῶτα μὲν λεῶς οὐκ ἐπακτὸς ἄλλοθεν,
 αὐτόχθονες δ' ἔφυνεν· αἱ δ' ἄλλαι πόλεις,
 ἄλλαι παρ' ἄλλων εἰσιν εἰσαγωγίμοι.
 ὅστις δ' ἀπ' ἄλλης πόλεως οἰκίζει πόλιν
 λόγῳ πολίτης ἐστί, τοῖς δ' ἔργοισιν οὔ.
 ἔπειτα τέκνα τοῦδ' ἕκατι τίκτομεν
 ὡς θεῶν τε βωμῶς πατρίδα τε βνῶμεθα.
 πόλεως δ' ἀπάσης τοῦνομ' ἐν, πολλοὶ δὲ νιν
 ναῖουσι· τοῦτους πῶς διαφθεῖραί με χρῆ,
 ἐξὸν πρὸ πάντων μίαν ὑπερόουναί θανεῖν ;
 μισῶ γυναικάς αἵτινες πρὸ τοῦ καλοῦ
 ζῆν παῖδας εἴλονθ', αἱ παρήνεσαν κακά.

Or,

Athene encourages Odysseus to attack the Wooers.

Ὡς φάτ'· Ἀθηναίη δὲ χολώσατο κηρόθι μᾶλλον,
 νεέκεσσαν δ' Ὀδυσῆα χολωτοῖσιν ἐπέεσσιν·
 Οὐκέτι σοίγ', Ὀδυσσεῦ, μένος ἐμπεδον οὐδέ τις ἀλκή,
 οἷη στ' ἀμφ' Ἑλένη λευκωλένῳ, εὐπατερεῖη,
 εἰνάετες Τρῶεσσιν ἐμάρναο νωλεμέσ αἰεῖ,
 πολλοὺς δ' ἄνδρας ἔπεφνες ἐν αἰνῇ δηϊότητι,
 σῆ δ' ἦλθω βουλῇ Πριάμου πόλιν εὐρύαγνα.
 πῶς δὴ νῦν, ὅτε σὺν τε δόμον καὶ κτήμαθ' ἰκάεις,
 ἄντα μνηστῆρων ὀλοφύρεαι ἄλκιμος εἶναι ;
 ἀλλ' ἄγε δεῦρο, πέπον, παρ' ἐμ' ἵστασο, καὶ ἴδε ἔργον,
 ὄφρ' εἰδῆς οἷός τοι ἐν ἀνδράσι δυσμενέεσσιν
 Μέντωρ Ἀλκιμίδης εὐεργεσίας ἀποτίειν.

*Ἡ ῥά· καὶ οὐπω πάγχυ διδοὺς ἑτεραλκία νίκην,
 ἀλλ' ἔτ' ἄρα σθένεός τε καὶ ἀλκῆς πειρήτιζεν,
 ἡμὲν Ὀδυσσεύς, ἡδ' υἱοῦ κυδαλίμοιο.
 αὐτὴ δ' αἰθαλόεντος ἀνὰ μεγάροιο μέλαθρον
 ἔζετ' ἀναΐξασα, χελιδόνι εἰκέλῃ ἄντην.

SECOND PAPER—Two Hours.

I. FOR GREEK PROSE COMPOSITION.

Theramenes declared that he had always been a friend of the oligarchs, although he had thought it unjust to execute innocent citizens or to plunder the property of the Metics. He added that he had opposed those who wished to deprive the populace of their arms because thus the city would have been rendered too weak to resist its enemies. By such arguments he nearly persuaded the Council to acquit him. But Critias maintained that they must not allow a man who was manifestly plotting against the oligarchs to escape. He therefore removed the name of Theramenes from the Three Thousand and condemned him to death.

II. GRAMMAR.

1. Give:

(a) 2nd plural present optative active of εἶμι, ἀφίημι, πωλῶ διψῶ.

(b) 3rd dual 1st aorist indicative passive of πίνω, ὠνούμαι, λαγχάνω, λαμβάνω.

(c) 3rd singular pluperfect indicative passive of τρέφω, καίω, ελαίνω, ἐσθίω.

(d) Dative plural masculine of πρᾶος, χαρίεις, τυπεῖς, γεγραφώς.

2. Parse carefully, giving the principal parts of the verb to which each form belongs: συμπλακείς, μνησθῆς, ὠσθήσομαι, ἀνέψξαν.

3. Distinguish ᾗσαν, εἶσαν: κτᾶσθαι, κεκτῆσθαι: γέλων, γελῶν: ἱππεύ, ἱππευε. What is the Greek for *from a distance, well done, more quickly, not at all, nineteen ships, ten times, ten each, on the third day?*

4. Scan either (a) γαμεί δ' ὁ μὲν δὴ τὴν θεοῖς στιγνουμένην
Μενέλαος Ἑλένην, ὁ δὲ Κλυταιμνήστρας λέχος.

Or, (b) αὐτίκ' ἐπεὶ μέγα τόξον ἐβάσασσε καὶ ἶδε πάντη
ὥς ὅτ' ἀνὴρ φόρμιγγος ἐπιστάμενος καὶ ἀοιδῆς.

5. Translate, with a note on the syntax of the words underlined:

(a) οὐ μὴ θήσεσθε τὰ ὄπλα;

(b) ἐπιμωρήσαντο τὸν ἄνδρα τούτου τοῦ αἵματος.

(c) ἐγένοντο πλουσιώτεροι αὐτοὶ ἐαυτῶν.

(d) βοῦλει σοι χαρίζωμαι;

(e) ξένοι, φράσαιτ' ἂν πόθεν ὕδωρ λάβοιμεν;

(f) οὐκ ἀπαρνήσεται μὴ οὐχὶ ἐπίστασθαι τὰ δίκαια.

6. Translate into Greek:

(a) "Yes, by Zeus," said the philosopher, "you seem to me to be speaking the truth without knowing it."

(b) Would that they had been as willing to make a treaty as they were to make war with you.

(c) Let no one think that he cannot help us: every one can do something.

(d) See that you don't forget your father's words: if you did, you would make the same mistake as your brother.

LOWER MATHEMATICS.—THREE HOURS.

Candidates may obtain FULL marks by doing about two-thirds of this paper. But the Examiners may reject a Candidate who shows exceptional weakness in any of the sections A, B, C.

Marks will not be awarded to answers where work is not shown.

A.

1. Reduce to its lowest terms

$$\frac{3378375}{4279275}$$

$$\frac{3378375}{4279275}$$

and simplify $\frac{1}{15} - \frac{2}{35} - \frac{1}{15} + \frac{2}{35}$.

2. When articles are sold at £1. 7s. 3d. per dozen the gain is 9 per cent. Find the cost price per hundred.

3. At what rate per cent. per annum will the interest on £163. 11s. 9d. for 8 months amount to £4. 18s. 1d.?

4. Two galloping horses stride at the same rate, but the first going 5 inches more each stride beats the second by $27\frac{1}{2}$ yards in a mile. Find the length of the strides of each.

5. The weight of a cubic centimetre of mercury is 13.6 grammes. Between what limits must the weight of the mercury contained in a bottle of capacity 60.5 cubic centimetres lie, each measurement being correct to the last figure?

6. Prove that the area of a rectangle is correctly found by multiplying the number of units of length in the breadth by the number of units of length in the height.

Show, by taking as an example a rectangle $3\frac{1}{2}$ by $4\frac{1}{3}$ inches, that the same rule holds when the lengths of the sides are expressed in fractions.

B.

7. Find the Highest Common Factor and the Lowest Common Multiple of

$$10a^3 + 11a^2 + 9, \text{ and } 6a^3 + 5a^2 + 9.$$

8. Simplify

$$(i) \frac{a}{a-b} + \frac{a}{a+b} - \frac{2a^2}{a^2+ab+b^2};$$

$$(ii) \left\{ \frac{2}{x} - \frac{1}{x-y} - \frac{1}{x+y} \right\} \div \left\{ \frac{x-y}{x+y} - \frac{x+y}{x-y} \right\}.$$

9. Solve the equations

$$(i) 2a - \frac{1}{2}(4a - 5x) = 5x - \frac{1}{4}(3x - 2a);$$

$$(ii) \frac{x-3}{x+5} = \left(\frac{2x-3}{2x+5} \right)^2;$$

$$(iii) 2x - 5y - 6 = 4y - x + 9 = 5x + 3y - 2.$$

10. Find for what values of y the quantities $100y^2 - 6ay - 20a^2$ and $4y^2 - 2ay - 5a^2$ are equal.

11. In a cricket match between two sides A and B , B lead on the first innings by 95 runs. In the second innings A score twice as many as B did in the first, and B score three times as many as A did in the first. If A win the match by 3 runs, find the score of each side in each innings.

12. Prove that if a , b , x are all positive and a less than b , then $\frac{a+x}{b+x}$ is greater than $\frac{a}{b}$.

C.

13. Two triangles have three sides of one equal respectively to three sides of the other; prove that they are equal in all respects.

In the four-sided figure $ABCD$, $AB = BC$ and $CD = DA$; prove that BD and AC are at right angles.

14. The exterior angle of a triangle is equal to the sum of the two interior and opposite angles; and the sum of the three angles of any triangle is equal to two right angles.

The three larger angles of a quadrilateral are respectively twice, four times and five times the least. Find all the angles.

15. The complements of the parallelograms that are about the diagonal of any parallelogram are equal.

Through O , a point within a parallelogram $ABCD$, two straight lines are drawn parallel to the sides: if the parallelograms AO , CO are equal, O is on the diagonal BD .

16. Divide a given straight line so that the rectangle contained by the whole and one part shall be equal to the square on the other part.

If the length of the given line be 21 inches, prove that the longer segment is a little less than 13 inches.

17. Prove that the angle in a semi-circle is a right-angle; and state and prove the converse theorem.

A given square is moved about so that two adjacent sides pass respectively through two fixed points: prove that the diagonal through the intersection of these sides passes through a fixed point.

18. If a tangent and a secant be drawn to a circle from an external point, the square on the tangent is equal to the rectangle contained by the two external segments of the secant.

The circle TPQ is touched by OT and cut by OPQ . If TPQ is a right angle, OP is 10 inches and PQ is 20 inches, find correct to two decimal places the lengths of OT , TP and TQ .

INTERMEDIATE AND HIGHER MATHEMATICS.

FIRST PAPER—Two Hours.

Candidates may obtain FULL marks by doing about two-thirds of this paper. But the Examiners may reject a Candidate who shows exceptional weakness in any of the sections A, B, C.

The pass mark for Intermediate Candidates is fixed with reference to the total number of marks assigned to questions which fall under the

syllabus of the Intermediate Standard; but such Candidates will receive credit for any questions they may answer.

Marks will not be awarded to answers where work is not shown.

A.

1. The greatest common factor of two numbers is 35; their least common multiple is 1260. If neither number is a multiple of the other, find them both.

2. Solve the equations

$$(i) \frac{x+5}{x+1} + \frac{x-3}{x+5} + \frac{x-14}{x-13} = 3;$$

$$(ii) y^2 = x+2, x^2 = y+2.$$

3. The area of a rectangle is 220 square feet. If its length is increased by three and its breadth diminished by two feet, its area will be 221 square feet. Find its present dimensions.

4. Define the terms *symmetrical* and *homogeneous*. One of the factors of $(bc+ca+ab)^2 + (a^2+b^2+c^2)(bc+ca+ab) + b^2c^2 + c^2a^2 + a^2b^2 + abc(a+b+c)$ is known to be $a+b$; find, without unnecessary calculation, the other linear factors.

5. Prove that the square of a finite fraction cannot be an integer, and hence show that a whole number which has no integral square root cannot have a fractional one.

Show also that $\sqrt{2} + \sqrt{3}$ cannot be rational.

6. A straight line twelve inches in length is divided into three parts such that the sum of their squares is 68 square inches and the rectangle contained by two of them is 18 square inches; find the three parts.

B.

7. Prove that the sum of the squares on the two smaller sides of a right-angled triangle is equal to the square on the third.

If P is a point outside the straight line BAC such that

$$AB^2 + PC^2 = AC^2 + PB^2, \quad PA \text{ will be at right angles to } BC.$$

8. If a straight line be divided into two equal and also into two unequal parts, the sum of the squares on the two unequal parts is equal to twice the sum of the squares on the part between the points of section and on half the line.

Hence show that if P be a point outside the line ACB , which is bisected in C , then $AP^2 + BP^2 = 2PC^2 + 2AC^2$.

9. Draw a straight line from an external point to touch a given circle.

The radii of two circles are respectively $4\frac{1}{4}$ and $7\frac{3}{4}$ inches; and the distance between their centres is $12\frac{1}{2}$ inches. Find the lengths of both their common tangents.

10. If two triangles have one angle common, and the sides about that angle proportional, prove that the triangles are similar.

A triangle of given form changes its magnitude so that while one vertex is fixed another moves along a given straight line. Show that the third moves along another straight line.

11. Prove that if two straight lines in space are parallel to a third they are parallel to one another.

Show that the lines joining the middle points of the opposite edges of a tetrahedron meet in a point.

C.

12. By construction or otherwise find the values of $\sin \theta$, at intervals of $\pi/12$, from $\theta = 0$ to $\theta = \pi/2$.

Trace carefully the graph of $\sin \theta$ and of $\sin^2 \theta$ from $\theta = 0$ to $\theta = 2\pi$.

13. Prove the formula

$$\sin(A+B) = \sin A \cos B + \cos A \sin B.$$

Deduce the values of $\sin 15^\circ$ and $\sin 75^\circ$, working each to two decimal places.

14. In any triangle prove that $a \cos B + b \cos A = c$; and from it with two similar results find the value of $\cos A$ in terms of a, b, c .

If in a triangle $a = 193$, $b = 207$, $c = 32$, find the angle A .

SECOND PAPER—TWO HOURS.

Candidates may obtain FULL marks by doing about two-thirds of this paper. But the Examiners may reject a Candidate who shows exceptional weakness in any of the sections A, B, C.

The pass mark for Intermediate Candidates is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the Intermediate Standard; but such Candidates will receive credit for any question they may answer.

Marks will not be awarded to answers where work is not shown.

A.

1. A man starts on a bicycle to travel a distance of 15 miles. After cycling for an hour his bicycle breaks down, and he has to walk the remainder of the distance, completing the whole journey in two hours. If his bicycle had broken down after travelling for 12 miles, he would have completed the whole journey in eight minutes less than two hours. Find his speed when cycling and when walking.

2. Solve the equations:

$$(i) 4(x+a)(x+b) + (a-b)^2 = 0;$$

$$(ii) \sqrt[3]{8x+1} - \sqrt[3]{4x+1} = \sqrt{\frac{2x}{3}};$$

$$(iii) \begin{cases} 4x^2 - xy = 20, \\ 6xy - y^2 = 26. \end{cases}$$

3. Prove that a proper fraction is increased by adding the same positive quantity to its numerator and denominator.

Find the least whole number which must be added to the numerator and denominator of $\frac{1}{11}$ to obtain a fraction greater than $\frac{1}{11}$.

4. If $\frac{x}{p} = \frac{y}{q} = \frac{z}{r}$, prove that each of these fractions is equal to

$$\frac{ax+by+cz}{ap+bq+cr}.$$

If $\frac{x}{bc(b-c)} = \frac{y}{ca(c-a)} = \frac{z}{ab(a-b)}$, then $ax+by+cz=0$, and

$$a(b+c)x+b(c+a)y+c(a+b)z=0.$$

5. If four positive quantities are in continued proportion, show that the difference between the first and last is at least three times as great as the difference between the other two.

6. If α and β are the roots of the equation $px^2+qx+r=0$, prove that $\alpha+\beta = -q/p$ and $\alpha\beta = r/p$.

Prove that the equation whose roots are α^4 and β^4 is

$$(p^2x+r^2)^2 - (2pr - q^2)^2x = 0.$$

B.

7. Prove that the opposite angles of a quadrilateral inscribed in a circle are together equal to two right angles.

A, B, C, D are four points on a circle. If AB and BC be joined and from D perpendiculars DE, DF be drawn on AB and BC (produced if necessary) and DF cut the circle again in G , prove that the lines joining AG and EF are parallel.

8. If two chords of a circle intersect, the rectangles contained by the segment of the chords are equal.

The angle $\angle ABC$ of the triangle ABC is a right angle, and D is the middle point of AC . If DE be drawn at right angles to AC to cut AB in E , prove that the rectangle AE, EB is equal to the difference of the squares on AD and DE .

9. Construct a triangle each of whose base angles shall be double the vertical angle.

Find the area of a regular pentagon whose side is 12 inches correct to two places of decimals.

10. If a straight line be drawn parallel to one of the sides of a triangle it will cut the other sides proportionally.

If the sides AB and AC of a triangle ABC are bisected in E and F respectively, and EFD is drawn so that FD equals twice EF ; prove that if DC and AB be produced to meet in G , BG equals AB .

11. Draw a perpendicular to a given plane from a given point without it.

Give a construction for drawing a line which shall be equally inclined to three given lines meeting at a point.

C.

12. Define the tangent of an angle, and trace the variation in sign and magnitude of $\tan \alpha$, as α varies from 0° to 180° .

Solve the equation $\cos \theta \cot \theta = 1 + \sin \theta$.

13. Express $\sin \theta$ in terms of $\tan \theta$, and prove that

$$\frac{1 - \cos \theta}{1 - \operatorname{cosec} \theta} - \frac{1 + \cos \theta}{1 + \operatorname{cosec} \theta} = 2 \tan \theta (\sin \theta - \sec \theta).$$

14. Prove that in any triangle $a^2 = b^2 + c^2 - 2bc \cos A$.

An equilateral triangle, each of whose sides is 6 ft. long, has one side divided into three equal parts; find the length of the line drawn from one of the points of section to the opposite vertex.

FRENCH.

FIRST PAPER—ONE HOUR AND A HALF.

Translate into French:—

January 26, 1783.

1. MY DEAR FRIEND,—It is reported among persons of the best intelligence at Olney—the barber, the schoolmaster and the drummer of a corps quartered at this place—that the belligerent powers are at last reconciled, the articles of the treaty adjusted, and that peace is at the door. I saw this morning, at nine o'clock, a group of about twelve figures very closely engaged in a conference, as I suppose, upon the same subject. . . . Some held their hands behind them, some had them folded across their bosom, and others had thrust them into their breeches pockets. Every man's posture bespoke a pacific turn of mind; but the distance being too great for their words to reach me, nothing transpired. I am willing, however, to hope that the secret will not be a secret long, and that you and I, equally interested in the event, though not, perhaps, equally well-informed, shall soon have an opportunity to rejoice in the completion of it.

COWPER.

2. (a) Since I last wrote to you, my friend, Dr. Brown is gone to England.

(b) I ran home as I said I should, and got back again, and nobody missed me.

(c) He had best keep his opinions to himself, whatever they are.

(d) I shall not forgive him until he has apologised.

(e) It is difficult for me to do what you want.

SECOND PAPER—Two Hours.

Translate into English:—

(a) J'ai voulu trouver du plaisir à mes promenades, et je suis parti seul, par le premier sentier venu, allant devant moi au hasard. Pourvu qu'on ait remarqué deux ou trois points saillants, on est sûr de retrouver sa route. On a les jouissances de l'imprévu, et l'on fait la découverte du pays. Le moyen de s'ennuyer est de savoir où l'on va et par où l'on passe: l'imagination déflore d'avance le paysage. Elle travaille et bâtit à sa façon; en arrivant il faut tout renverser: cela met de mauvaise humeur; l'esprit garde son pli; la beauté qu'il s'est figurée nuit à celle qu'il voit; il ne la comprend pas, parce qu'il en comprend une autre. La première fois que je vis la mer, j'eus le désenchantement

le plus désagréable : c'était par une matinée d'automne ; des nuages violacés bigarraient le ciel ; une brise faible hérissait la mer de petits flots uniformes. Je crus voir une des longues plaines de betteraves qu'on trouve aux environs de Paris, coupée de carrés de choux verts et de bandes d'orge rousses. La perspective me semblait étroite ; les tableaux des peintres m'avaient représenté la mer plus grande. Il me fallut trois jours pour retrouver la sensation de l'immensité.

(b) *La Cloche fêlée.*

Il est amer et doux, pendant les nuits d'hiver,
D'écouter, près du feu qui palpite et qui fume,
Les souvenirs lointains lentement s'élever
Au bruit des carillons qui chantent dans la brume.

Bienheureuse la cloche au gosier vigoureux,
Qui, malgré la vieillesse, alerte et bien portante,
Jette fidèlement son cri religieux,
Ainsi qu'un vieux soldat qui veille sous la tente !
Moi, mon âme est fêlée, et lorsqu'en ses ennuis
Elle veut de ses chants peupler l'air froid des nuits,
Il arrive souvent que sa voix affaiblie
Semble le râle épais d'un blessé qu'on oublie
Au bord d'un lac de sang, sous un grand tas de morts,
Et qui meurt, sans bouger, dans d'immenses efforts !

BAUDELAIRE.

II. GRAMMAR.

1. Compose sentences (with their English translation) to show the difference between *convenir à* and *convenir de*, *servir de* and *se servir de*, *avant que* and *avant de*, *de peur que* and *de peur de*, *à moins que* and *à moins de*.

2. Translate into French : He opened his mouth. He shook his grey head. They (fem.) have forgiven each other. They made fun of each other. I have answered both his letters.

3. Form sentences (with their English translation) to show what prepositions are governed by the verbs, *plaire*, *douter*, *penser*, *ordonner*, *s'approcher*.

III. PHILOLOGY AND LITERATURE.

(Only ONE question to be attempted.)

1. Give the outline of one play of Racine or Molière, quoting if possible some striking passage.

2. Give a summary of any of Bossuet's *Oraisons funèbres* which you have read.

3. What was the literary doctrine of Boileau ?

4. Explain how the French genders have come from Latin, using as illustrations any five of the following nouns : *table*, *arme*, *champ*, *merveille*, *arbre*, *douleur*, *honneur*, *gens*.

5. Give the Latin etymology of the following adverbs : *ailleurs*, *dehors*, *ensemble*, *déjà*, *encore*, *assez*, *souvent*, *si*, *très*, *loin*.

GERMAN.

FIRST PAPER—ONE HOUR AND A HALF.

(The Candidate may use either English or German script.)

Translate into German:—

(a) I made a laughable mistake one morning while I was in Rome. A man was standing on the shady side of the street with his hat in his hand. As I passed he gave me a piteous look, though he said nothing. He had such a woe-begone face and such a threadbare coat that I at once took him for one of those beggars whom poverty compels to receive the stranger's charity though pride forbids them to ask it. "Poor man, you have doubtless known better days," said I to myself, and I dropped into his hat the little that I was able to give. He looked at the money as if it had been a scorpion, and instead of thanking me, he showered upon me all the curses of his native tongue. Then, tossing the coin upon the road, he drew his dirty hat over his ears with both hands and stalked away with all the dignity of an ancient Roman—to the great amusement of a grocer who stood at his shop door shaking with laughter. No time was given me for an apology, but as I walked away, I resolved to be more careful in future and not to mistake for a beggar every poor gentleman who chose to stand in the shade with his hat in his hand on a hot summer's day.

(b) 1. We were happy to be at home again at last.

2. He has done his utmost, but he has not succeeded.

3. My brother has been obliged to remain in school in order to transcribe his exercise.

4. Without considering the matter further, he followed the advice of the old professor.

5. I fear that he cannot come, since a misfortune has happened to him.

SECOND PAPER—Two Hours.

(The candidate may use either English or German Script.)

I. Translate into English:

(a) „Es ist etwas Großes," sagte er, „wenn man bedenkt, daß, damit ich hier in aller Ruhe meinen Thee schlürfen und Du Deine Pfeife rauchen kannst, der fleißige Chinese in jenem fernen Lande für uns pflanzt und der Neger für uns unter der Tropen Sonne arbeitet. Ja, das nicht allein, die großen Dampfer durchbrausen für uns in Sturm und Wogen den mächtigen Ocean und die Karawanen ziehen durch die brennende Wüste. Der stolze millionenreiche Handelskönig, der in Hamburg in einem Palaste wohnt und am Ufer der Elbe einen fürstlichen Landsitz sein nennt, muß uns einen Theil seiner

Sorge zuwenden, und wenn ihm seine Geschäfte schlaflose Nächte machen, so liegen wir behaglich hingestreckt und träumen von schönen Dingen, und lassen ihn sich quälen, damit wir zu unserem Thee und unserem Tabak gelangen. Es schmeckt mir nocheinmal so gut, wenn ich daran denke."

Ah, er bedachte nicht, daß wohl der größere Theil dieses Thees an dem Ufer eines träge dahinsießenden Baches auf einem heimathlichen Weidenbaum gewachsen war, und daß dieser Tabak in Magdeburgs fruchtbaren Gefilden von derselben Rübe seinen Ursprung nahm, welche die Mutter des Zuckers war, mit welchem wir uns den Thee verjüßt hatten.

(b) Das schöne große Taggestirne

Vollendet seinen Lauf.

Komm', wisch den Schweiß mir von der Stirne,
Vieh Weib, und dann risch' auf!

Kannst hier nur auf der Erde decken,

Hier, unterm Apfelbaum!

Da pflegt es Abends gut zu schmecken,

Und ist am besten Raum.

Und rufe flugs die kleinen Gäste,

Denn hör', mich hungert's sehr!

Bring' auch den Kleinsten aus dem Neste,

Wenn er nicht schläft, mit her!

Es leuchtet uns bei unserm Mahle

Der Mond so silberrein

Und guckt von oben in die Schale

Und thut den Segen drein.

Nun, Kinder, esset, esst mit Freuden,

Und Gott gesegn' es euch!

Sieh, Mond, ich bin wohl zu beneiden

Bin arm und bin doch reich!

Wischen, to wipe; aufstischen, to serve (a meal); flugs, quickly;
gucken, to peep.

II. GRAMMAR.

1. Tabulate, with the proper article and meaning, the nominative singular, genitive singular and nominative plural of the following nouns: Bett, Name, Teller, Maus, Uhr.

2. Form and translate sentences showing the case or cases governed by the following prepositions: *wegen, vor, über, um, entlang.*

3. Give the 3rd singular present indicative and 3rd singular imperfect indicative of the following verbs: *bringen, brechen, sehen, gehen, werfen.*

III. PHILOLOGY AND LITERATURE.

(Only ONE question to be attempted, the answer to which should not cover more than a page and a half.)

1. Explain the formation of the following words, and give the meanings of their component parts: *Aufmerksamkeit, Ermunterung, Ausverkauf, beunruhigen, märchenhaft.*

2. Form one adjective and one verb from each of the following nouns, giving the meanings of the new words: *Glück, Farbe, Macht, Sieg, Teuf.*

3. State briefly what you know of Lessing as (a) a poet, (b) a dramatist, (c) a prose writer.

4. Write a short essay on Bürger's ballads, giving an outline of any one of them which you may have read.

SPANISH.

FIRST PAPER—ONE HOUR AND A HALF.

Translate into Spanish:—

Our little habitation was situated at the foot of a sloping hill, sheltered with a beautiful underwood behind, and a prattling river before; on one side a meadow, on the other a green. My farm consisted of about twenty acres of excellent land, having given a hundred pounds for my predecessor's goodwill. Nothing could exceed the neatness of my little enclosures, the elms and hedge-rows appearing with inexpressible beauty. My house consisted but of one storey, and was covered with thatch, which gave it an air of great snugness; the walls on the inside were nicely whitewashed, and my daughters undertook to adorn them with pictures of their own designing. Though the same room served us for parlour and kitchen, that only made it the warmer; besides, as it was kept with the utmost neatness, the dishes, plates, and coppers being well scoured, and all disposed in bright rows on the shelves, the eye was agreeably relieved, and did not want richer furniture. There were three other apartments; one for my wife and me; another for our two daughters; and the third, with two beds, for the rest of the children.

1. Explain the difference between *ser* and *estar*, *ante* and *delante*, *mirar* and *buscar*.

2. Of what genders are *nuez, día, mano, idioma, centinela*?

3. Write down the third person singular of all the tenses of *poner, saber, dormir*.

4. Four days ago I arrived here, where I found my father and relations all in good health. The happiness of seeing them and conversing with them has so completely occupied my time and thoughts that I have not been able to write to you until now.

5. We cannot like a man who is always commending and speaking well of himself, and who is the hero of his own story.

SECOND PAPER—Two Hours.

Translate into English :—

Todo el día de hoy ando en busca del Señor Mesonero, y no he podido dar con él. Quiero pedirle un favor, ó más bien hacerle un encargo; ustedes que deben de conocerle, pues yo sé que él los conoce á ustedes perfectamente, me harán la merced de contarle mi cuita tal como aquí en breves razones voy á referirla. Es el caso que ayer, día de miércoles para toda cristianidad, fué martes para mí solo: quiero decir, que fué día aciago, infansto y de mala ventura, porque salí de casa por la mañana, y así como suele acontecer topar uno tras cada esquina un jorobado, ó un noticiero, ó uno de estos que piden prestado hasta que se cobren los atrasos (que es letra pagadera en el valle Josafat), ó en fin cualquiera otra alimaña molesta y enfadosa, yo fui tropezando en toda mi triste carrera, con una cáfila de aficionados, linaje de gentes mucho mas perjudicial á la república que los gitanos.

Estos son los aficionados, que nada hacen por principios ni rectamente, y de todo pringan, y todo lo estropean; estos son los que yo quiero recomendar á la pluma satírica del Señor Mesonero, para que así á su modo, y con aquella agri dulce gracia que Dios le dió, me los saque á la publica vergüenza.

GRAMMATICAL QUESTIONS.

1. Give the feminine of :—Conde, padrino, caballo, poeta, carnero, el avestruz, el ruiseñor, el testigo.

2. Write the subjunctive mood and imperative mood of the verbs—ir, apretar.

3. Write the negative form of :—Fiel, dichoso, racional, prudente, legible, noble, leal.

4. Form the ablative superlative of :—Caro, rico, hermoso, docto, amable, sabio.

5. Translate the following locutions :—

Lo echó todo á perder.

Por mas que me diga?

¿ Le ha sabido bien el café?

Nada se me da de ello.

¿ Donde vamos á parar.

Apretar el paso.

Dar mal rato.

A escondidas.

De rodillas.

De puntillas.

De balde.

A pedir de boca.

Tomar á pechos.

DYNAMICS—THREE HOURS.

(Candidates may obtain FULL marks by doing about two-thirds of this paper. Marks will not be awarded to answers where work is not shown.)

1. Define velocity and acceleration. An express train acquires, in five minutes from starting, a speed of 60 miles per hour. Assuming that the acceleration is uniform, find the acceleration in foot-second units.

2. A body starts with velocity V and moves under an acceleration a in the line of its motion, but in the opposite direction. Find its position after a time t .

If V is 100, and a is $2\frac{1}{2}$, each measured in foot-second units, find when the body will be 1680 feet from the starting-point.

3. State and illustrate the second law of motion.

Assuming that the mass of the train mentioned in the first question, excluding engine and tender, is 225 tons, find the tension of the coupling between the tender and the first carriage (1) when getting up speed, (2) at full speed, assuming that the resistances due to friction, etc., are 2000 lb., and that $g=32$ foot-second units.

4. Prove that the work done by a force acting on a body is equal to the change in kinetic energy; and if F be the force, s the space moved through, m the mass, V the initial and v the final velocity, express the result in symbols.

The train in the first and third questions has its full speed reduced by one-half through the application of brakes that result in a total retarding force of 25 tons: the mass of the engine and tender being 75 tons, what distance did the train run during this reduction of speed?

5. Shew that a body projected horizontally will describe a curve; and give a figure drawn approximately to scale.

A man stands on one bank of a stream that is 4 feet higher than the opposite bank; he leaps horizontally and just reaches the opposite edge. The breadth of the stream being 9 feet, find his initial velocity; and find also how high this would carry him if he were to leap vertically upwards.

6. Prove that a body projected up a smooth inclined plane with given velocity rises through a height independent of the angle of inclination.

Shew also that the times of falling from rest at the highest point down all chords of a vertical circle are the same.

7. State and prove the proposition known as the triangle of forces.

Two forces are represented by straight lines OA , OB , and C is the middle point of AB . Prove that the sum of their resolved parts along OC is $2OC$.

8. Distinguish between the three classes of levers, and investigate which have mechanical advantage.

A uniform lever AB is 8 feet long and weighs 9 lb.; a weight of 5 lb.

hangs from A, and a weight of 8 lb. from B. Find the distance from A about which the whole will balance.

9. If the distances of two particles from a straight line in the same plane with them be x_1 , x_2 , and the masses be m_1 , m_2 , prove that the distance of their centre of gravity from that line is

$$\frac{m_1 x_1 + m_2 x_2}{m_1 + m_2}.$$

Three particles whose masses are m , $3m$, $5m$, are placed at the angular points of an equilateral triangle. Find the distances of their centre of gravity from the sides of the triangle.

10. Prove that the algebraic sum of the moments of two intersecting forces about any point in their plane is equal to the moment of their resultant about the point,

A uniform trap-door, with a horizontal hinge, which weighs 2 cwt., is kept in equilibrium with its plane inclined at an angle of 30° to the horizon by a horizontal force applied at right angles to the side remote from the hinge; find the magnitude of this force.

11. State the laws of statical friction and define the angle of friction. If the coefficient of friction is $1/3$ find what force must be applied horizontally to keep a weight of 1 cwt. at rest on a plane inclined at an angle of 60° to the horizon.

12. Two liquids that do not mix are contained in the same vessel. Find an expression for the pressure at a point in the lower of the two liquids.

A vessel, whose base is a square with a side of 6 inches and whose walls are vertical, contains mercury to the depth of 2 inches, and water is poured in to the depth of 7 inches more. If the specific gravity of the mercury be 13.5 , find the pressure on one side of the vessel, it being given that one cubic foot of water weighs 1000 oz.

13. A body of uniform density hangs partially immersed in a liquid and is partly supported by a string. Find the conditions of equilibrium.

A ball of lead weighing 20 lb., and of specific gravity 11.3 is lying at the bottom of a pond. What volume of wood (specific gravity $.5$) must be attached to it to make it just rise?

14. Describe the common hydrometer and explain its use.

A Nicholson's hydrometer weighs $4\frac{1}{2}$ oz., and requires a weight of 2 oz. to sink it to the fixed mark in water. What weight will be required to sink it to the fixed mark in a liquid whose specific gravity is 1.8 ?

15. A little air sometimes gets into the tube of an ordinary barometer: shew that its effect on the height of the mercury is less when the barometer is low than when it is high; and less when the tube is wide than when it is narrow.

The barometer reads 30 inches before some air is let in: it at once falls to 29 inches; the clear space above the mercury now being 6 inches long. Find the real pressure when the barometer reads 28 inches, assuming that the tube is a cylinder with a flat top.

II.—FOR DEGREE OF M.A.

I.—FOR ORDINARY DEGREE.

A.—DEPARTMENT OF LANGUAGE AND LITERATURE.

LATIN TRANSLATION—TWO HOURS.

Translate :—

- (a) Virgil, *Aeneid* ix. 371—385.
- (b) Propertius ii. 13. 27—42.
- (c) Horace, *Sat.* ii. 3. 108—123.
- (d) Tacitus, *Ann.* xii. 40.
- (e) *Either* Cicero, *pro Sestio*, § 91, *or* Cicero, *ad Att.* v. 15.

LATIN PROSE—TWO HOURS.

This too the little ones in a great fright report to their mother. Again their mother bids them to be without fear or anxiety. 'Kinsmen and relations,' she tells them, 'are not generally so complaisant as to hurry up to do work without any delay, on short notice. Only mind and take notice if anything more is said.' Another day came. The bird went out again to get food. The kinsmen and relations put off giving the assistance they were asked for. At last, therefore, the master says to his son, 'Good-bye to friends and relations,' says he, 'bring two sickles to-morrow morning; I will take one, and you shall take the other, and we will reap the corn to-morrow ourselves with our own hands.' When the mother heard from the little ones that the farmer had said this, 'It is time,' she said, 'to get up and be off; what he said will be done to-morrow without doubt. For now the matter rests with the owner, and does not depend on help asked from others.' And so the lark changed her nest, and the crop was reaped by the master.

LATIN GENERAL PAPER—TWO HOURS.

I. UNPREPARED TRANSLATION.

Translate :—

Alpibus Italiam munierat antea natura non sine aliquo divino numine. Nam, si ille aditus Gallorum immanitati multitudinique patuisset, numquam haec urbs summo imperio domicilium ac sedem praebuisset. Quae iam licet considant. Nihil est enim ultra illam altitudinem montium usque ad Oceanum, quod sit Italiae pertimescendum. Sed tamen una atque altera aestas vel metu vel spe vel poena vel praemiis vel armis vel legibus potest totam Galliam sempiternis vinculis adstringere. Impolita vero res et acerbae si erunt relictæ, quamquam sunt accisae, tamen efferent se aliquando et ad renovandum bellum revirescent. Quare sit in eius tutela Gallia, cuius fidei, virtuti, felicitati commendata est. Qui

si Fortunae muneribus amplissimis ornatus saepius eius deae periculum facere nollet, si in patriam, si ad deos penates, si ad eam dignitatem, quam in civitate sibi propositam videt, si ad iucundissimos liberos, si ad clarissimum generum redire properaret, si in Capitolium invehi victor cum illa insigni laude gestiret, si denique timeret casum aliquem, qui illi tantum addere iam non potest, quantum auferre, nos tamen oporteret ab eodem illa omnia, a quo profligata sunt, conici velle.

II. GRAMMAR.

1. Parse fully :—*perpercere, sinas, verere, periclitatus*.
2. Translate, with short notes on points of syntax :—
 - (a) *Poenarum exhaustum satis est*.
 - (b) *Amnis rauca sonans*.
 - (c) *Civis erat expulsus non alio aliquo sed eo ipso crimine*.
 - (d) *Procac otii et potestatis temperantior*.
3. Scan the following lines :—
 - (a) *Euryale an sua cuique deus fit dira cupido*.
 - (b) *Quaesitum Aenean et moenia Pallantea*.
 - (c) *Scis mihi Demophoon multa venire mala*.
 - (d) *Quidquid eram hoc animi gratia magna tui*.

III. HISTORY AND ANTIQUITIES.

1. Narrate the events which led up to the Social War.
2. Write a short account of *either* Pompey *or* Mark Antony.
3. Explain the importance of the composition of the Roman jury. Through what changes did it pass during this period?
4. How did Augustus' position differ legally from that of Julius Caesar?

GREEK TRANSLATION—TWO HOURS.

Translate :—

- (a) *Either* Hom. *Od.* XVIII. 227–242, Hom. *Od.* XIX. 366–380, *or* Herod. V. 35, Herod. V. 92.
- (b) Dem. *Ol.* II. §§ 11 and 12.
- (c) Dem. *Phil.* II. §§ 23–25.
- (d) Dem. *Chers.* §§ 14–16.
- (e) Dem. *Peace* §§ 11 and 12.
- (f) Eur. *Hippol.* 1102–1119.
- (g) Ar. *Plutus.* 653–671.

GREEK PROSE AND GRAMMAR—TWO HOURS.

I. TRANSLATE INTO GREEK.

It was now in Doria's power to have rendered himself the sovereign of his country, which he had so happily delivered from oppression. The fame of his former actions, the success of his present attempt, the attach-

ment of his friends, the gratitude of his countrymen, together with the support of the Emperor, all conspired to facilitate his attaining the supreme authority, and invited him to lay hold of it. But with a magnanimity of which there are few examples, he sacrificed all thoughts of aggrandizing himself to the virtuous satisfaction of establishing liberty in his country, the highest object at which ambition can aim. Having assembled the whole body of the people in the court before his palace, he assured them that the happiness of seeing them once more in possession of freedom, was to him a full reward for all his services; that, more delighted with the name of citizen than of sovereign, he claimed no pre-eminence or power above his equals; but remitted entirely to them the right of settling what form of government they would now choose to be established among them. The people listened to him with tears of admiration and of joy.

II.—1. Parse fully : ἀείδουσιν, οἰσομένη, συνδιήνικαν, προπλάσας.

2. Translate with notes on points of syntax :

(a) ἐντανθοῖ νῦν ἦσο.

(b) ἀλλὰ μᾶλλον μὴ τοῦτο ἢ τὸ χρηστήριον.

(c) χρέον γὰρ μὲν μὴ λέγειν τὸ εὖν, λέγει δ' ὦν τριῶν μηνῶν εἶναι τὴν ἀνοδόν.

(d) οὓς ἐγὼ τοσοῦτον δέω ζῆλουν, ὥστε εἶποιμ' ἂν ὅτι τῶν τοιοῦτων πολιτευμάτων οὐδὲν πολιτεύομαι.

(e) ἐγὼ δ' ἀναδηῆσαι βούλομαι

εὐαγγελιά σε.

3. Explain with examples :

cognate accusative; retained accusative; accusative absolute; dativus commodi; the imperative-infinitive.

GREEK GENERAL PAPER—Two Hours.

I. UNPREPARED TRANSLATION.

Ὅς δ' ἀπήλλακτο μὲν παρὰ τοῦ Πιττάλακου, ἀνέληπτο δ' ὑπὸ τοῦ Ἡγησάνδρου, ὠδινᾶτο, οἶμαι, ὁ Πιττάλακος τοσοῦτον ἀργύριον μάτην, ὥς ᾤετο, ἀνθλῶκως, καὶ ἐξήλοτύπει τὰ γινόμενα καὶ ἐφοίτα ἐπὶ τὴν οἰκίαν. ὅτι δ' αὐτοῖς ἠνώχλει, σκέφασθε μεγάλην ῥώμην Ἡγησάνδρου καὶ Τιμάρχου· μεθυσθέντες γὰρ ποτε καὶ αὐτοὶ καὶ ἄλλοι τινὲς τῶν συγκυβειτῶν, ὧν οὐ βούλομαι τὰ ὀνόματα λέγειν, εἰσπηδῆσαντες νύκτωρ εἰς τὴν οἰκίαν, οὐ ᾤκει ὁ Πιττάλακος, πρῶτον μὲν συνέτριβον τὰ σκενάρια καὶ διερρίπτουν εἰς τὴν ὁδόν, ἀστραγάλους τέ τινας διασείστοις καὶ φιμούς καὶ κυβεντικά ἔτερ' ὄργανα, καὶ τοὺς ὀρυγας καὶ τοὺς ἀλεκτριόνας, οὓς ἡγάπα ὁ τρισκακοδαίμων ἄνθρωπος, ἀπέκτειναν, τὸ δὲ τελευταῖον δῆσαντες πρὸς τὸν κίον· αὐτὸν τὸν Πιττάλακον ἐμαστίζον τὰς ἐξ ἀνθρώπων πληγὰς οἷτω πολὺν χρόνον, ὥστε καὶ τοὺς γείτονας αἰσθῆσθαι τῆς κραυγῆς. τῇ δ' ὑστεραίᾳ ὑπεραγανακτήσας τῷ πράγματι ὁ Πιττάλακος ἔρχεται γυμνὸς εἰς τὴν ἀγορὰν καὶ καθίζει ἐπὶ τὸν βωμὸν τῆς μητρὸς τῶν θεῶν.

II. HISTORY AND LITERATURE.

1. What idea do you obtain from the Odyssey of the political state of Ithaca?

2. Illustrate from the history of the Ionic revolt the capacity of the Greek race for political combination.

3. What stage in Attic comedy is represented by the *Plutus*? To what other work of literature is it most akin?

4. Is there reason to suppose that Athens, if its policy had been better directed, could have withstood Philip?

5. What attempts were made during the 5th century to impose limits on Athenian democracy? To what extent were they successful?

6. What are the principal respects in which Euripides differed from the earlier tragedians?

HEBREW.

FIRST PAPER—THREE HOURS.

1. Point and translate:

אִשִּׁירָה נָא לִידִידִי שִׁירַת הוֹדִי לְכַרְמִי כִּרְם הִיא לִידִידִי
בְּקֶרֶן בֶּן שָׁמֶן: וַיַּעֲזָקְהוּ וַיִּסְקָלְהוּ וַיִּטְעֵהוּ שָׂרֵק וַיִּבֶן
מִגְדָּל בְּתוֹכֹוּ וְגַם יָקָב חֲצַב כּוּ וַיִּקֶּן לַעֲשׂוֹת עֲנָבִים וַיַּעַשׂ
בְּאִשִּׁים: וַעֲתָה יוֹשֵׁב יְרוּשָׁלַם וְאִישׁ יְהוּדָה שָׁפְטוּ נָא
בִּנְיָ וּבֶין כֶּרְמִי: מָה לַעֲשׂוֹת עוֹד לְכַרְמִי וְלֹא עָשִׂיתִי
כּוּ מְדוּעַ קִיַּיתִי לַעֲשׂוֹת עֲנָבִים וַיַּעַשׂ בְּאִשִּׁים: וַעֲתָה
אוֹדִיעָה נָא אֶתְכֶם אֵת אֲשֶׁר אֲנִי עֹשֶׂה לְכַרְמִי הִסֵּר
מִשׁוֹכְתּוֹ וְהִיא לְבַעַר פְּרוֹץ גָּדְרוֹ וְהִיא לְכַרְמִם: וְאִשִּׁיתָהּ
בְּתָה לֹא יוֹמֵר וְלֹא יַעֲדֵר וְעֵלָה שְׂמִיר וְשִׁית וְעַל הָעֵנָבִים
אֲצִיָּה מִחֲמִטִּיר עָלָיו מִטֵּר: כִּי כֶרֶם יְהוָה צְבֹאֹת בֵּית
יִשְׂרָאֵל וְאִישׁ יְהוּדָה נֹטֵעַ שְׁעִשׂוּעִיו וַיִּקֶּן לְמִשְׁפָּט וְהִנֵּה
מִשְׁפָּח לְצַדִּיקָה וְהִנֵּה צִעֲקָה:

2. Give the following in punctuated Hebrew:

And Judas gathered together all Israel, them that were in the land of Gilead, from the least unto the greatest, and their wives, and their children, and their stuff, an exceeding great army, that they might come into the land of Judah. And they came as far as Ephron, and this same city was great, and it was in the way as they should go, exceeding strong: they could not turn aside from it on the right hand or on the left, but must needs pass through the midst of it. And they of the city shut them out, and stopped up the gates with stones. And Judas sent unto them with words of peace, saying, we will pass through your land to go into our own land, and none shall do you any hurt, we will only pass by on our feet. And they would not open unto him. And Judas commanded proclamation to be made in the army that each man should encamp in the place where he was. And the men of the host encamped, and fought against the city all that day and all that night,

and the city was delivered into his hands; and he destroyed all the males with the edge of the sword, and rased the city, and took the spoils thereof, and passed through the city over them that were slain. And they went up to mount Sion with gladness and joy, and offered whole burnt offerings, because not so much as one of them was slain until they returned in peace.

I. MACCABEES.

3. Give a brief description of the appearance of the Hebrew Text of the Old Testament as it existed at the beginning of the Christian Era.

4. Recount the circumstances that led to the Schism of the kingdom of Israel, and describe the situation at the time when the Schism was effected.

5. What was the condition of the two kingdoms at the time of Isaiah; and what was the task set before that prophet?

SECOND PAPER—THREE HOURS.

I. 1 Samuel xx. 1—11.

1. Translate.

2. Parse ריבא in v. 1; תמות in v. 2; וישבע in v. 3; לרוץ in v. 6; דע in v. 7; אגיד in v. 9.

3. Explain the syntax of ולא יגלה in v. 2; ואעשה in v. 4; and קשה in v. 10.

4. Explain why the Q're is to be preferred to the K'thibh in v. 2.

5. For וישבע עיד in v. 3 the LXX has καὶ ἀπεκρίθη, and for ישב אשב in v. 5 καθίσας οὐ καθήσονται. Can you give a reason why the readings of the LXX are to be preferred?

6. תאמר in v. 4 is rendered by ἐπιθυμῶ. Is this a probable rendering? If not, what was the original text?

7. ולא אתה אגיד לך v. 9. What is the construction of this clause?

8. Remark on כפשע in v. 3, and עד הערב השלשית in v. 5.

9. What evidence have we that the book of Samuel is a compilation from various sources? Give instances, and mention some of the sources.

II. Isaiah xxiii.

1. State briefly the contents of this chapter, and discuss the question of authorship.

2. Translate verses 1—9.

3. Parse מלאוד and דמיו in v. 2; חלתי in v. 4; יבולתי in v. 7; המעטירה in v. 8; and להקל in v. 9.

4. In v. 1 give the syntax of שדד מבית מבורא, and mention any change of reading that has been proposed. Why is כתום mentioned here?

5. In v. 2 give the syntax of the second half of the verse. In v. 3 what is the reference? And what is the subject of ורתהי? Give the derivation of מערז in v. 4.

6. For **כִּאֲשֶׁר שָׁמַעַי** in v. 5 LXX has *ὅταν δὲ ἀκουσθὸν γένηται*. What reading does that suggest? And what is the objection to the Massoretic reading?

7. Construe the first three words in v. 7. What kind of sentences have you in the second half of the verse?

8. Name and classify all the accents in v. 4.

III. Psalm cxxix.

1. Translate.

2. Parse **צַרְרוּנִי** in v. 1; **יָכֹל** in v. 2; **קִעֵץ** in v. 4; **יִבְשׁוּ** and **רִיכְגוּ** in v. 5.

3. Remark on **רַבַּת** in v. 1; **גַּם** in v. 2; **שִׁקְרָמַת** in v. 6; and **שָׁאָה** in v. 7.

4. In v. 3 is the Q're of **לְמַעַנְתָּם** to be preferred?

5. What is the syntax of **צָדִיק** in v. 4, and of **שֹׁלֵךְ** in v. 6. Remark on the meaning of **שִׁכָּה**.

6. State and criticise the various explanations of the title of this Psalm.

ENGLISH LANGUAGE AND LITERATURE.

THREE HOURS.

(Answer NINE questions, taking ONE from A, ONE from B, FIVE from C, and TWO from D.)

A. COMPOSITION.

1. What are the chief causes of obscurity in writing?

2. Write a short criticism of the style of *either* Macaulay or Carlyle.

3. "Between the language of prose and that of metrical composition there neither is, nor can be, any essential difference" (Wordsworth). Discuss this statement.

B. PHILOLOGY.

4. What traces of old English inflections are retained in our modern English vocabulary?

5. In what way does each of the following words illustrate *either* (a) the changes undergone in form by old English words, or (b) the character of the various foreign elements found in English:—nearer, sorrow, church, feat, vixen, shepherdess, livelihood, shamefaced, balcony, burke?

6. Indicate the main points of difference between Northern and Southern English in Chaucer's time.

C. EIGHTEENTH CENTURY LITERATURE.

7. What light do the *Satires and Epistles* throw on Pope's literary quarrels and friendships?

8. Illustrate the literary ideals of the age of Pope from the critical judgments of Addison, Pope, and Swift on earlier English poets.

9. Give a brief account, and examine the purpose, of the digressions in the *Tale of a Tub*.

10. Classify, according to their themes, Addison's various contributions to the *Spectator*, and estimate their influence upon contemporary life and opinion.

11. Indicate clearly what is meant by the Poetic Diction of the eighteenth century. How far was its vogue due to the influence of Milton and of Pope respectively?

12. What new elements in prose fiction were introduced by Richardson and Fielding? Write a critical estimate of *either* as a novelist.

13. Account for the poverty of the first half of the eighteenth century in lyric poetry. What do you know of the work of Prior and of Gay?

14. Shew how Thomson, Gray, and Collins respectively, mark a reaction against the ideals of the Augustan age (*a*) in their choice of poetic themes, (*b*) in form and style.

15. Give the substance of Johnson's criticisms of Pope and of Gray, illustrating from them his strength and his limitations as a literary critic.

16. Compare Goldsmith and Sheridan as dramatists.

17. State Burke's leading political ideas, with illustrations from his speech on Conciliation with America.

18. How far may the facts of Johnson's life be used to illustrate his poem, *The Vanity of Human Wishes*?

D.

19. Sketch a conversation between Hotspur and Falstaff at the Boar's Head in East Cheap.

20. Examine the evidence for the opinion that *Macbeth* is not entirely the work of Shakespeare.

21. It has been said of *Macbeth* that "however he may waver in the contemplation of crime, its execution strings him up to the loftiest tone." Discuss this statement in the light of the play. Does it suggest a point of contrast between the character of *Macbeth* and that of his wife?

22. Annotate:

- (a) From these the world will judge of men and books,
Not from the Burnets, Oldmixons and Cookes.
- (b) So humble, he has knocked at Tibbald's door,
Has drunk with Cibber.
- (c) Spenser himself affects the obsolete,
And Sidney's verse halts ill on Roman feet.
- (d) The rights a Court attack'd, a Poet sav'd.
- (e) If we should fail?

We fail.

But screw your courage to the sticking-place
And we'll not fail.

- (f) Some I see
That two-fold balls and treble sceptres carry.
- (g) My mind she has mated and amazed my sight.

23. What wider questions of Shakesperean criticism does Maurice Morgann treat in his essay on *The Dramatic Character of Falstaff*?

24. Discuss the following criticisms on Tennyson :

- (a) "Everywhere are greatness and a high imagination moving at ease in the gold armour of an heroic style."
 (b) Tennyson, "the widest-known retailer of ideas in English verse, was all the while in a back-water where only the fainter wash of the larger currents reached him."

FRENCH LANGUAGE AND LITERATURE.

FIRST PAPER—THREE HOURS.

1. Translate into French :—

SONNET.

- (a) When I shall be divorced, some ten years hence,
 From this poor present self which I am now,
 When youth has done its tedious vain expense
 Of passions that for ever ebb and flow
 Shall I not joy youth's heats are left behind,
 And breathe more happy in an even clime
 Ah no, for then I shall begin to find
 A thousand virtues in this hated time.
 Then I shall wish its agitations back,
 And all its thwarting currents of desire ;
 Then I shall praise the heat which then I lack,
 And call this hurrying fever, generous fire,
 And sigh that one thing only has been lent
 To youth and age in common—discontent.

MATTHEW ARNOLD.

(b) I speak therefore of good novels only ; and our modern literature is particularly rich in types of such. Well read, indeed, these books have serious use, being nothing less than treatises on moral anatomy and chemistry ; studies of human nature in the elements of it. But I attach little weight to this function : they are hardly ever read with earnestness enough to permit them to fulfil it. The utmost they usually do is to enlarge somewhat the charity of a kind reader, or the bitterness of a malicious one ; for each will gather, from the novel, food for her own disposition. Those who are naturally proud and curious will learn from Thackeray to despise humanity ; those who are naturally gentle, to pity it ; those who are naturally shallow, to laugh at it.

RUSKIN.

Traduire en anglais :—

Un hymne harmonieux sort des feuilles du tremble ;
Les voyageurs craintifs, qui vont la nuit ensemble,
Haussent la voix dans l'ombre où l'on doit se hâter :
Laissez tout ce qui tremble
Chanter !

Les marins fatigués sommeillent sur le gouffre.
La mer bleue où Vésuve épand ses flots de soufre
Se tait dès qu'il s'éteint, et cesse de gémir.
Laissez tout ce qui souffre
Dormir !

Quand la vie est mauvaise on la rêve meilleure.
Les yeux en pleurs au ciel se lèvent à toute heure ;
L'espoir vers Dieu se tourne et Dieu l'entend crier.
Laissez tout ce qui pleure
Prier !

C'est pour renaitre ailleurs qu'ici-bas on succombe.
Tout ce qui tourbillonne appartient à la tombe.
Il faut dans le grand tout tôt ou tard s'absorber.
Laissez tout ce qui tombe
Tomber !

V. HUGO.

SECOND PAPER—THREE HOURS.

Only ONE question from A and only ONE question from B (to be answered in English).

I. GRAMMAR.

A.

1. Scan the following lines ; indicate the place of the caesura in every case ; give an appreciation of the rimes, and comment generally on the versification of the passage.

Bélise.—Qu'il a d'esprit !

Philaminte.—Holà ! pourquoi donc fuyez-vous ?

Henriette.—C'est de peur de troubler un entretien si doux.

Philaminte.—Approchez, et venez, de toutes vos oreilles,
Prendre part au plaisir d'entendre des merveilles.

Henriette.—Je sais peu les beautés de tout ce qu'on écrit,
Et ce n'est pas mon fait que les choses d'esprit.

Philaminte.—Il n'importe : aussi bien ai-je à vous dire ensuite
Un secret dont il faut que vous soyez instruite.

Trissotin.—Les sciences n'ont rien qui vous puisse enflammer,
Et vous ne vous piquez que de savoir charmer.

Henriette.—Aussi peu l'un que l'autre, et je n'ai nulle envie . . .

Bélise.—Ah ! songeons à l'enfant nouveau-né, je vous prie.

MOLIÈRE, *Femmes Savantes*, III. 2.

2. Explain the use of the definite (or indefinite) article in English and in French. Illustrate the difference by means of examples.

B.

1. Reforms introduced by Malherbe and Vaugelas in the French language.

2. Explain the general modifications of the French language from the period of Old French to the period of Middle French.

II. LITTÉRATURE.

Composition française.

Traiter l'un des sujets suivants :—

(a) Montrer où est l'intérêt dans la comédie du *Misanthrope*.

(b) En quoi 'Le Bourgeois Gentilhomme' est-il une comédie vraie et profonde, et en quoi une farce?

(c) Etudier la manière dont Molière a su varier l'expression du même défaut dans les caractères des trois femmes savantes.

(d) Etudier le caractère de Tartuffe.

GERMAN LANGUAGE AND LITERATURE.

FIRST PAPER—THREE HOURS.

1. Translate into German :

I came hither solely with the design to simplify my way of life, and to secure the independence through which I could be enabled to remain true to myself. This bit of earth is our own : here we can live, write, and think, as best pleases ourselves, even though Zoilus himself were to be crowned the monarch of literature.

Nor is the solitude of such great importance : for a stage-coach takes us speedily to Edinburgh, which we look upon as our British Weimar. And have I not, too, at this moment piled up upon the table of my little library a whole cart-load of French, German, American, and English journals and periodicals—whatever may be their worth. Of antiquarian studies, too, there is no lack. From some of our heights I can descry, about a day's journey to the west, the hill where Agricola and his Romans left a camp behind them. At the foot of it I was born, and there both father and mother still live to love me.

CARLYLE.

2. Write an essay on the following subject :

Maria Stuart : ein Lebensbild.

GRAMMAR.

(Answer FIVE of the following questions.)

1. What do you understand by the expressions High German, Old High German, Low German?

2. Explain fully the process known as Grimm's Law.

3. When is the Adverbial Accusative used?

4. What verbal forms have imperative force?

5. Can any definite rules be given with regard to the genders of foreign words?

6. What are the particular uses of the Modal Auxiliaries?

7. Write notes on the words in italics: du bist *es* doch zufrieden; ich rufe *dir*; der Scherz kostet *mich* viel Geld; schon *den Hals entblösst*; kniet' ich auf meinem Mantel; der *Kölner* Dom; das ist *lauter* Unsinn.

8. How did the modification of the vowels arise?

GERMAN LANGUAGE AND LITERATURE.

SECOND PAPER—THREE HOURS.

1. Translate into English:

Der Artist hatte die dringendsten Ursachen, das Leiden des Laokoon nicht in Geschrei ausbrechen zu lassen. Wenn aber der Dichter die so rührende Verbindung von Schmerz und Schönheit in dem Kunstwerke vor sich gehabt hatte, was hatte ihn eben so unvermeidlich nöthigen können, die Idee von männlichem Anstande und grossmüthiger Geduld, welche aus dieser Verbindung des Schmerzes und der Schönheit entspringt, so völlig unangedeutet zu lassen, und uns auf einmal mit dem grässlichen Geschrei seines Laokoons zu schrecken? Richardson sagt: Virgils Laokoon muss schreien, weil der Dichter nicht sowohl Mitleid für ihn, als Schrecken und Entsetzen bei den Trojanern, erregen will. Ich will es zugeben, obgleich Richardson nicht erwogen zu haben scheint, dass der Dichter die Beschreibung nicht in seiner eigenen Person macht, sondern sie den Aeneas machen lässt, und gegen die Dido machen lässt, deren Mitleid Aeneas nicht genug bestürmen konnte.

LESSING'S *Laokoon*.

2. *Margarete von Parma*. Ich hätte mir's vermuthen sollen. Ha! Wenn man in Mühe und Arbeit vor sich hinlebt, denkt man immer, man thue das Möglichste, und der von weitem zusieht und befiehlt, glaubt, er verlange nur das Mögliche.—O die Könige!—Ich hätte nicht geglaubt, dass es mich so verdriessen könnte. Es ist so schön, zu herrschen!—Und abzudanken?—Ich weiss nicht, wie mein Vater es konnte; aber ich will es auch.

Machiavell erscheint im Grunde.

Regentin. Tretet näher, Machiavell! Ich denke hier über den Brief meines Bruders.

Machiavell. Ich darf wissen, was er enthält?

Regentin. So viel zärtliche Aufmerksamkeit für mich als Sorgfalt für seine Staaten. Er rühmt die Standhaftigkeit, den Fleiss und die Treue, womit ich bisher für die Rechte seiner Majestät in diesen Landen gewacht habe. Er bedauert mich, dass mir das unbändige Volk so viel zu schaffen mache. Er ist von der Tiefe meiner Einsichten so vollkommen überzeugt, mit der Klugheit meines Betragens so ausserordentlich zufrieden, dass ich fast sagen muss, der Brief ist für einen König zu schön geschrieben, für einen Bruder gewiss.

GOETHE'S *Egmont*.

3. Napoleon dagegen erwartete mit Sehnsucht die Nacht, die seine noch übrigen hartbedrängten Haufen aus der Hand der ungestümen Feinde erretten sollte. Er hatte viel Raum verloren und sein grosser Halbkreis war in ein schwaches Dreieck zusammengedrängt, das in seiner Spitze Probstheyda hatte und mit einer Seite nach Connewitz an der Plesse, mit der andern über Stötteritz und Volkmarsdorf nach Leipzig hinlief. Hätte sein Heer nicht an diesem Tage noch einmal mit recht festem Mute und grosser Ordnung den schweren Kampf bestanden,—dieser Ruhm soll auch dem Feinde nicht geschmälert werden—; wäre einer der Schenkel dieses Dreiecks noch vor Abend durchbrochen und Leipzig erstürmt worden, so war alles verloren. Napoleon kämpfte an diesem Tage nur noch für den Rückzug, und schon von 10 Uhr morgens an war ein zahlloser Tross von Wagen, Pferden und Gepäck, den ganzen Tag hindurch, hinter dem Bertrand'schen Heerhaufen hergezogen.

KOHLRAUSCH.

4. Explain the following words and phrases, and comment on any grammatical peculiarities: Ruodi: eine Feste; Kuhreihen: Monden-
nacht; Föhn: wahr bleibt wahr; es ist heute Simons und Judä:
Herd und Hof; dies sagend ritt er trutziglich von dannen; Gravelingen!
Freunde, da ging's frisch; es ist der Tell aus Burglen.

LITERATURE.

(Answer SIX questions; ONE, at least, from group A.)

A.

1. Draw a map of Lake Lucerne, marking the places where the most important scenes of Schiller's *Tell* are laid.
2. Estimate the influence of the Crusades on German literature.
3. Analyse the character of *Gudrun*.

B.

4. In what light is Tell represented in his first meeting with Stauffacher?
5. What influence did Herder exercise upon the literary men of his age?
6. State the chief services which Wieland rendered to German literature.
7. Give an account of Schiller's relations with Goethe and his literary activity from 1794-1805.
8. What do you know of the metre and style of Wallenstein's *Lager*?
9. Write a short analysis of the *Piccolomini*.
10. Who were the minor "*Stürmer und Dränger*"?

ITALIAN LANGUAGE AND LITERATURE.

FIRST PAPER—THREE HOURS.

1. Translate into Italian :

For the truth is, Dante in this matter has taken a position which, unless evidence, solid evidence, for the "concealed Christianity" of Statius had been in his opinion extant and ascertainable, would be absurd. The account which Statius gives of his conversion is elicited by a question, or rather a critical objection, put into the mouth of Virgil. Statius has already implied, as indeed his purgation of himself implies, that he was of the true faith. Whereupon Virgil very pertinently observes that the introduction to the *Thebais* (he marks the precise passage that he has in view) does not exhibit the writer as a Christian. It does not : in fact it shows, as Virgil himself, under the polite form of his negative, intimates plainly enough, that the writer was at that time not a Christian of any sort, professed or concealed.

A. W. VERRALL.

2. Translate into English :

Fratello, ti do noia ora se parlo ?

Parla : non posso prender sonno.—Io sento

Rodere, appena . . .—Sarà forse un tarlo.—

Fratello, e hai sentito ora un lamento

Lungo, nel buio ?—Sarà forse un cane . . .—

C'è gente all'uscio . . .—Sarà forse il vento.

Odo due voci piane piane piane . . .—

Forse è la pioggia che vien giù bel bello.—

Senti quei tocchi ? Sono le campane.

Suonano a morto ? Suonano a martello ?—

Forse . . .—Ho paura . . .—anch'io.—Credo che tuoni

Come faremo ? Non lo so fratello :

Stammi vicino : Stiamo in pace : buoni.

SECOND PAPER.—THREE HOURS.

I. GRAMMAR.

(a) Sketch the development of the Italian Language from the *Sermo Cottidianus*, and show the connection or non-connection between words like *equus*, *adiuvare*, *os*, *ignis*, *ebrius*, *edere*, etc., and corresponding Italian words.

(b) Write present indicative, preterite indicative, and present subjunctive of the following verbs :—*Comporre*, *chiedere*, *togliere*, *indurre*.

(c) Explain the difference between the imperfect indicative and the past definite.

(d) State when a verb should be in the subjunctive in Italian.

II. LITERATURE.

Svolgere uno dei temi seguenti :

1. Le trasfigurazioni di Beatrice nella Vita Nuova, e il simbolo ch'Ella rappresenta nel Paradiso.
2. Parallelo fra S. Francesco e Fra Ginepro dedotto dai Fioretti.
3. La cultura necessaria al gentiluomo, secondo il Castiglione, e la cultura necessaria all'artista architetto secondo il Manetti. Ravvicinare i due fatti e lumeggiare il concetto della vita individuale nel Rinascimento Italiano.

B.—DEPARTMENT OF MENTAL PHILOSOPHY.

LOGIC.—THREE HOURS.

(*Not more than TEN questions to be attempted.*)

1. Examine Mill's definition of Logic. Give instances of the errors which result from confusing the logical with the psychological aspects of a problem.

2. What criticism does Mill bring to bear upon the view that "a proposition consists in affirming or denying one *idea* of another"? What is his own view of the "import of propositions," and is it consistent with his doctrine that "of the outward world we know and can know absolutely nothing, except the sensations we experience from it"?

3. State the following propositions in logical form, describe their logical character, and give the converse, contrapositive, and opposites of each :

- (i) We are all poets when we read a poem well.
- (ii) The right of private judgment is exercised by Protestants.
- (iii) They also serve who only stand and wait.
- (iv) No one is free who doth not command himself.

4. (a) Prove from the general rules of syllogism (1) that if the conclusion be universal, both the premisses must be universal, and (2) that in the First Figure the major premiss must be universal and the minor affirmative.

(b) On what grounds can it be shown that the First Figure is, as Aristotle maintained, superior to the other Figures of the Syllogism?

5. Test the validity of each of the following arguments, stating the fallacy, if any :

(1) The classics are not good instruments of education, because in nine cases out of ten a boy, throughout his after career, applies his Latin and Greek to no practical purpose.

(2) The relation of cause and effect is that of invariable sequence. Night invariably follows day. Therefore day is the cause of night.

(3) Each person's happiness is a good to that person, and the general happiness, therefore, is a good to the aggregate of all persons.

6. State and examine the grounds on which Mill supports the view that the conclusion of a syllogism is not an inference drawn *from* the major premiss, but an inference drawn *according to it*.

7. Explain the use of the following terms in Logic: (1) *Conversio per accidens*; (2) Illicit process of the major and minor; (3) *Reduction per impossibile*; (4) Induction by simple enumeration; (5) Plurality of causes; (6) Dilemma.

8. Describe the Method of Residues and that of Concomitant Variations. Indicate their relations to the first two inductive methods, and give instances of the classes of phenomena to which they are applicable.

9. Describe the methods available for the investigation of mental processes, and indicate the special difficulties attaching to their use.

10. "The fundamental fallacy of the Associationists lies in their bias towards psychological atomism." Discuss this, and indicate how the facts grouped under the head of "Association" may be interpreted so as to avoid the fallacy referred to.

11. What mental factors are involved in the perception of a real thing? Indicate specially the way in which selective attention is implied.

12. How is visual perception of solid objects conditioned by tactual experiences?

13. Discuss carefully the origin and growth of the consciousness of self.

14. "It is, I know, a point much insisted on, that all knowledge and demonstration are about universal notions, to which I fully agree; but then it does not appear to me that those notions are formed by abstraction."

Explain carefully the point of this contention, and illustrate Berkeley's criticism of abstract ideas by bringing it to bear on Locke's "idea of substance."

15. Explain and discuss Berkeley's conception of natural and spiritual causation.

16. In what way does Berkeley meet the objections that, according to his theory, (a) "all that is real and substantial in nature is banished out of the world and instead thereof a chimerical scheme of *ideas* takes place"; (b) "things are every moment annihilated and created anew"? Discuss the adequacy of his replies.

17. Describe the general principle of Occasionalism and trace its development from the philosophy of Descartes.

MORAL PHILOSOPHY.—THREE HOURS.

(All candidates for the Degree are required to answer not less than two nor more than THREE questions in Section A, and not less than six nor more than SEVEN in Section B.)

SECTION A.

1. What did Plato understand by the analogy between the State and the Individual, and what use did he make of it in the *Republic*?

2. Distinguish and discuss the several conceptions of *Justice* in the Republic. How far does *Justice* coincide with and differ from the virtue of *Temperance*?

3. Describe and criticise the Communism advocated in the Republic. Does Aristotle's objection that it involves a false idea of the unity of the state seem to you to be valid?

4. What account does Plato give of the nature of evil? Sketch the several stages of possible degeneration in society and the individual that he distinguishes.

5. Write a short note on Plato's (1) antithesis of nature and law; (2) view of "Imitation"; (3) "lie in the soul"; (4) argument for immortality.

SECTION B.

1. "It is Authority (or Tradition) rather than Reason to which, in the main, we owe, not religion only, but ethics and politics." Criticise this view.

2. "Our process of learning may start from either end: from the cosmical laws of the outward sphere, or from introspective study of ourselves." Discuss this statement and consider what the ethical consequences are in each case.

3. Examine the view that Virtue consists in the equilibration of desires, and contrast it with Aristotle's account of Virtue.

4. "Social regulation confines individual liberty." Examine this view.

5. Discuss the view that the moral ideal is unknowable, and cannot be the motive of a moral action.

6. "The idea of Organism furnishes an escape from the abstract alternatives of Determinism and Indeterminism." How far is this true?

7. State and examine Hume's view of Reason in its relation to the moral life.

8. "All that is Natural is Good, and man has only to live in conformity with nature." What did the Stoics mean by this? Examine the doctrine.

9. Analyse the idea of Evolution, and apply it to the relation of man to nature.

10. In what respects did the Cyrenaics anticipate the Epicurean doctrine of morals. Criticise the Epicurean theory of pleasure, and contrast it with Bentham's.

11. "The only thing that can be called unconditionally good is the good will." Explain and discuss this statement, and distinguish between Kant's categorical and hypothetical imperatives.

12. Explain and discuss the Socratic principle that Virtue is Knowledge. In what respects did Aristotle modify this doctrine?

POLITICAL ECONOMY—THREE HOURS.

(Only NINE questions to be attempted, FIVE from Section I., THREE from Section II., and ONE from Section III.)

SECTION I.

1. Distinguish between the following:

- (a) Productive and unproductive labour;
- (b) Real and money wages;
- (c) Total and final utility.

2. Examine the proposal to restrict the output of coal with the view of raising the wages of colliers.

3. In what sense and under what conditions does cost of production determine value? Illustrate by special reference to (a) the price of books, (b) the price of coal.

4. "The Law of Substitution acts through the employer, and acts on him." Explain.

5. What are the principal causes effecting the efficiency of labour? Show how Trade Unions may affect this efficiency.

6. "When co-operative societies shall have sufficiently multiplied, it is not probable that any but the least valuable work people will any longer consent to work all their lives for wages merely, and both private capitalists and associations will gradually find it necessary to make the entire body of labourers participants in profits" (Mill).

How far has this forecast come true?

7. Contrast broadly the present position of the working classes in England, in relation to the necessities, conveniences, and luxuries of life, with their position early in the nineteenth century. Indicate the difficulties that result from the nature of the evidence available for making a comparison of this kind.

8. Distinguish between Rent and Quasi Rent, and explain what part they play in the theory of value.

9. If there is a large class in Glasgow who demand houses at £4 10s. of rent, and such houses cannot be supplied by private builders under £6, is it correct to say that "the law of supply and demand has failed"?

SECTION II.

10. "Every country apparently has its own political and social economy. In Germany economists are protectionists." Discuss the position taken in the above quotation.

11. What are Index Numbers? Describe the methods most generally in use.

12. Examine the nature and extent of "dumping" in this country.

13. Why is it said that both Retaliation and Preferential Tariffs are a return to Protection?

14. "An excess of imports is the same as a merchant's nett loss." Criticise.

SECTION III.

15. Under what conditions would great discoveries of gold fail to raise general prices in proportion to the increase in the supply of gold?

16. Is a creation of paper money a creation of wealth?

EDUCATION.

FIRST PAPER—THREE HOURS.

1. Sketch the course of instruction mapped out for an Athenian boy from 7 to 14 years of age, and explain in this connection the Athenian ideal of Education.

2. What reasons can be assigned for regarding the *Republic* as (1) an Ethical, (2) a Political, and (3) an Educational treatise? Show the essential unity to the Greek mind of these various points of view.

3. Compare the views of Ascham and Milton on the place and value of Classics.

4. "*Nil invita Minerva.*" Explain how Locke applies this maxim to Education, and discuss its value.

5. "Do nothing with the soul until it possesses all its faculties." Explain Rousseau's position as here stated, and discuss from the basal theory of Herbart.

6. State and criticise the canons by which Spencer determines the place and relative importance of various subjects as materials of Education.

7. Explain and illustrate the meaning of the term "Apperception" according to Herbart. Consider its bearing on the function of the teacher.

8. Explain the following, giving the context in each case:

(a) "Learning is robbed of her best wits."

(b) "To smatter Latin with an English mouth is as ill a hearing as Law-French."

(c) "He is not to learn science but to discover it."

(d) "Curiosity in children is but an appetite after knowledge."

(e) "It (our educational system) neglects the plant for the sake of the flower."

SECOND PAPER—THREE HOURS.

1. "The best answer to Spencer is Locke." Critically examine this statement in so far as it refers to their views on Education.

2. Is the highest value of the reproduction of Concepts to be found along the line of Memory or of Imagination? Discuss this question, and indicate briefly how your decision will affect your method of teaching literature, or history, or geography.

3. "Instruction is but the least part of education. Critically examine this statement with especial reference to the standpoints of Comenius, Montaigne and Herbart.

4. Discuss the importance of "many-sided interest" and its relation to the Individuality of the pupil. State and illustrate the use you would make of it in your instruction.

5. What do Herbartians set down as the 'five formal steps' in Instruction? Write a brief explanatory note on each step, and show in detail what use you would make of any one of them.

6. Trace the gradual evolution of the modern idea of the 'University,' illustrating the various steps in its earlier development by reference to Bologna.

7. Discuss the Educational importance of the earlier Humanistic movement, showing clearly how it affected the Subjects and Methods of Instruction.

8. Trace the progress of education in Scotland from 1560 to 1660.

C.—DEPARTMENT OF SCIENCE.

MATHEMATICS.

FIRST PAPER—THREE HOURS.

(NOTE.—Candidates may obtain FULL marks by doing correctly about TWO-THIRDS of this paper. The curve in question 13 should be drawn on the squared paper provided.)

1. Show that angles in the same segment of a circle are equal to one another.

Through A , one of the points of intersection of two given circles, two straight lines CC' and DD' are drawn cutting one circle at C, D and the other at C', D' . Show that the angle between CD and $C'D'$ is constant in size for all positions of CC' and DD' .

2. P is any point on the circumference of the circle circumscribed about the triangle ABC and perpendiculars are drawn from P to the sides of the triangle: if these perpendiculars meet the sides BC, CA, AB at the points D, E, F respectively, show that D, E, F are collinear.

Show that the circle which passes through the centres of the circles circumscribed about the triangles AEF, BFD, CDE is of constant magnitude.

3. If two triangles have one angle of the one equal to one angle of the other and the sides about these angles proportional, the triangles are similar.

Through A , one of the points of intersection of two given circles, a straight line is drawn meeting the circles at C and D . Find the locus of a point P which divides the line CD in a given ratio.

4. If the angle A of a triangle ABC is bisected by a straight line which meets the side BC at D , show that the square on AD is equal to the difference between the rectangles $AB \cdot AC$ and $BD \cdot DC$.

If $BC = 20, CA = 16, AB = 14$, calculate the length of AD .

5. If two straight lines are cut by parallel planes, they are cut in the same ratio.

Show that the areas of the polygons formed by cutting a pyramid by planes parallel to the base are proportional to the squares of the distances of the planes from the vertex of the pyramid.

6. If a straight line is perpendicular to a plane, every plane which passes through the line is perpendicular to that plane.

Perpendiculars AC , BD are drawn to a given plane from two given points A , B above it, and through A a plane is drawn perpendicular to AB ; show that the line in which this plane intersects the given plane is perpendicular to CD .

7. If a transversal meets the sides BC , CA , AB of a triangle ABC at D , E , F respectively, show that

$$\frac{BD}{DC} \cdot \frac{CE}{EA} \cdot \frac{AF}{FB} = 1.$$

If a circle be circumscribed about a triangle, the points in which the tangents at the vertices meet the opposite sides are collinear.

8. Define the polar of a point with respect to a circle, and show that if the polar of a point A passes through another point B , then the polar of B will pass through A .

$ABCD$ is a quadrilateral circumscribed about a circle; show that the pole of AC lies on BD .

9. Define the radical axis of two circles. Show that the difference of the squares on the tangents from any point P to two given circles is equal to twice the rectangle contained by the distance between the centres of the circles and the perpendicular from P on their radical axis.

Find the locus of a point such that the tangent from it to one given circle is three times the tangent from it to another given circle. Give a construction for drawing the locus.

10. Define a centre of similitude of two circles. Through a centre of similitude S a secant is drawn cutting the two circles at H , K , L , M ; prove that the rectangle contained by one pair of the segments SH , SK , SL , SM is equal to that contained by the other pair.

A variable circle touches two fixed circles; prove that the straight line joining the points of contact passes through one of two fixed points.

11. Find the equation of the straight line through the point $(-12, -2)$ perpendicular to the straight line joining the points $(3, 5)$, $(5, -7)$.

The distance of a point P from a point $(0, 4)$ is equal to its distance from the straight line whose equation is $y = -4$; what is the equation which the coordinates of P satisfy?

12. Prove that the equation

$$x^2 + y^2 + 2ax + 2by + c = 0$$

represents a circle, and find its radius and the coordinates of its centre.

Show that the circle whose equation is

$$x^2 + y^2 + 6x + 8y = 24$$

touches each of the three straight lines whose equations are

$$x = -10, \quad y = -11, \quad 3x + 4y = 10,$$

and find the coordinates of the points of contact.

13. On the squared paper provided plot the curve whose equation is

$$y = 2x + 3 + \frac{4}{x^2} \text{ from } x = \frac{1}{2} \text{ to } x = 4.$$

Find from your curve the least value of the ordinate in this range and the value of x for which the ordinate is least.

SECOND PAPER—THREE HOURS.

(NOTE.—Candidates may obtain FULL marks by doing correctly about TWO-THIRDS of this paper.)

1. Show that

$$a(b+c)^2 + b(c+a)^2 + c(a+b)^2 - 4abc$$

contains $b+c$ as a factor, and find the other factors.

Express

$$\frac{(a+bx - b+ax)}{(a-bx - b+ax)} \div \frac{(a+bx - b+ax)}{(a-bx - b+ax)}$$

as a single factor in its lowest terms.

2. If $\frac{x}{a} = \frac{y}{b} = \frac{z}{c}$, show that each fraction is equal to

$$\frac{lx+my+nz}{la+mb+nc}.$$

If $x^4 + b^4 = 2a^2x^2$, show that

$$\left(\frac{x^2 - b^2}{x^2 + b^2} \right)^2 = \frac{a^2 - b^2}{a^2 + b^2}.$$

3. Solve the equations

$$(i) 6(a-x)^2 + 6(x-b)^2 = 13(a-x)(x-b);$$

$$(ii) x\sqrt{x-3} + 3\sqrt{x+3} = \sqrt{x^3+27}.$$

Test the roots you obtain for equation (ii).

4. Solve the simultaneous equations

$$(i) 3x^2 + 2xy + y^2 = 43, \quad x^2 + 2xy + 3y^2 = 33;$$

$$(ii) \frac{y}{x} - \frac{x}{y} = \frac{x+3}{y+3} = \frac{x+y}{xy}.$$

5. Define the meaning of x^n when n is a positive integer, and show how a meaning is given to the symbol when n is not a positive integer; obtain the meaning of x^0 , $x^{\frac{1}{3}}$, $x^{-\frac{1}{3}}$.

Multiply $4^{\frac{2}{3}} + 4^{\frac{1}{3}} + 1$ by $4^{\frac{2}{3}} - 4^{\frac{1}{3}} + 1$, and find the value of the product, given $\sqrt[3]{4} = 1.6$.

Rationalise the equation $x^{\frac{2}{3}} + y^{\frac{2}{3}} = a^{\frac{2}{3}}$.

6. Find the sum of n terms of an arithmetical progression, of which the first term is a , and the common difference d . If the sum is divided by n^2 , what value does the quotient tend to as n becomes very large?

There are p arithmetical progressions; the first term of each is 1 and the common differences are 1, 2, 3, ... p respectively. Show that the sum of the n^{th} terms of these p progressions is

$$\frac{1}{2}\{(n-1)p^2 + (n+1)p\}.$$

7. Find an expression for the number of permutations of n different things taken r at a time.

A committee of 7 is to be chosen from 13 candidates of whom 6 are Tories and 7 Whigs: in how many ways can the selection be made so as to give a Tory majority?

8. Prove the binomial theorem when the index is a positive integer. Show that

$$\left(\frac{1+x}{1-x}\right)^n = 1 + n\left(\frac{2x}{1-x}\right) + \frac{n(n+1)}{1 \cdot 2}\left(\frac{2x}{1-x}\right)^2 + \frac{n(n+1)(n+2)}{1 \cdot 2 \cdot 3}\left(\frac{2x}{1-x}\right)^3 + \dots$$

If x is positive, what is the greatest value it can have?

9. Prove that, if x is numerically less than 1,

$$\log_e(1+x) = x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \dots,$$

and deduce the series

$$\log_e\left(\frac{y+1}{y}\right) = 2\left\{\frac{1}{2y+1} + \frac{1}{3} \cdot \frac{1}{(2y+1)^3} + \frac{1}{5} \cdot \frac{1}{(2y+1)^5} + \dots\right\}.$$

Show that

$$\log_e 7 = \frac{1}{2} \log_e 2 + \log_e 5 - \left\{\frac{1}{99} + \frac{1}{3} \cdot \frac{1}{99^3} + \frac{1}{5} \cdot \frac{1}{99^5} + \dots\right\}.$$

10. Assuming the addition theorem for the sine and cosine, express

(i) $\sin C + \sin D$, (ii) $\cos C - \cos D$ as products.

Prove that

$$\frac{\sin A + 2 \sin(A+B) + \sin(A+2B)}{\sin A + 2 \sin(A+B) + \sin(A+2B)} = -\tan^2 \frac{1}{2} B,$$

and solve the equation for x ,

$$\tan(x-\alpha) \tan(x-\beta) = \tan^2 x.$$

11. Prove that for any triangle

$$\tan \frac{1}{2} A = \sqrt{\frac{(s-b)(s-c)}{s(s-a)}}.$$

Given $a = 140$, $b = 180$, $c = 230$, find the angles of the triangle.

12. Assuming the usual formula for the area of a circle, deduce an expression for the area of a sector.

O is the centre of a circle and OA , OB are two radii; if the angle AOB is $72^\circ 30'$ and the radius OA is 26.4 inches, calculate (i) the length of the arc AB , (ii) the area of the sector AOB , (iii) the area of the segment between the arc AB and the chord AB .

13. Eliminate θ between the equations

$$(i) \quad x = a \cos(\theta - \alpha), \quad y = b \cos(\theta - \beta);$$

$$(ii) \quad \cos \theta + \sin \theta = x, \quad \cos 2\theta + \sin 2\theta = y - 1.$$

NATURAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

(NOTE.—Candidates are requested not to attempt more than NINE of the following questions.)

1. Explain carefully how the change of velocity of a moving point may be represented graphically; illustrate your answer by considering the case of a point moving along a plane curve from a position P to a position Q .

A point moves along the sides of a regular hexagon, the speed of its motion being the same for each side; represent completely the change which takes place in its velocity as it passes from one side to the next.

2. A particle P is projected in a vertical plane with a velocity V , the direction of projection making an angle α with the horizontal, and moves subject to a constant downward acceleration g . Find expressions for the horizontal and vertical displacements of the particle at time t , and sketch as fully as you can the path of the particle.

If, at the instant when P is projected, another particle Q begins to move downwards from the point of projection with the constant acceleration g , find the rate at which the distance between P and Q increases.

3. A particle is moving in a circle of radius r with a uniform speed v ; find, in direction and magnitude, the acceleration of the projection of the particle on a fixed diameter of the circle.

A straight rod PQ moves with its ends on two fixed intersecting wires OA , OB , the wires including a right angle between them; if the rod turns with uniform angular velocity ω , show that the acceleration of the middle point M of PQ is represented by $\omega^2.MO$.

4. Define the centre of mass of a system of particles, and show that the total momentum of the system in any direction is equal to the momentum of a particle of mass equal to the total mass of the system and moving with the velocity of the centre of mass.

OA , OB , OC are three coplanar lines, the angle between each pair being 120° ; three particles of masses 4, 3, 2 pounds move from O towards A , B , C respectively with the velocities 9, 6, 9 feet per second. Find the velocity of their centre of mass.

5. Define work, energy, activity, and show how these are measured in the c.g.s. system. State the principle of the conservation of energy.

Two particles of masses m and m' move on two rough inclined planes in a vertical plane normal to the line of intersection of the inclined planes, and are connected by a string which passes over a smooth pulley at the line of intersection of the planes; the inclinations to the horizontal of the planes are α , α' and the coefficients of the kinetic friction μ , μ' respectively. Show by the principle of energy that the masses move with a common constant acceleration and find that acceleration; assume that m moves down its plane.

6. Define the moment of inertia of a rigid body which is moveable about an axis and establish expressions for the moment of momentum and the kinetic energy of rotation of the body about the axis.

A uniform solid sphere and a uniform thin spherical shell, each of radius a , roll from rest down an inclined plane; the moments of inertia of the solid sphere and shell about a diameter are

$$\frac{2}{5}Ma^2 \text{ and } \frac{2}{3}ma^2$$

respectively. Find the ratio of the angular velocities of the solid sphere and shell when they have rolled the same distance.

7. A cord under stretching force T passes over a smooth pulley of radius r ; find the force per unit length exerted by the cord normal to the rim of the pulley.

A band of india-rubber, whose mass is 2 ounces, is stretched round a cylindrical shaft 6 inches in diameter, the stretching force when the shaft is at rest being 14 lbs. weight; at what angular velocity would the shaft have to rotate so that the band might just not press?

8. State the law of gravitational attraction as established by Newton for the sun and planets. Explain clearly how Newton was able to connect the attraction of the earth on the moon with the force of gravity on a body at the earth's surface.

If S , E , and M are the masses of the sun, earth, and moon respectively, if D is the mean distance of the earth from the sun and d the mean distance of the moon from the earth, and if T and τ are the periodic times of the earth and moon, show that, when the mutual attraction of the sun and earth and of the earth and moon are taken into account,

$$\frac{E+M}{S+E} = \left(\frac{d}{D}\right)^3 \left(\frac{T}{\tau}\right)^2.$$

9. State the laws of friction.

A beam whose cross-section is a rectangle $ABCD$ is lying on a rough plane parallel to one edge, the side AB of the cross-section being in contact with the plane; if the plane be gradually tilted up about the edge, show that the beam will slide or will roll over according as the coefficient of friction is less or greater than AB/BC .

10. Define bulk modulus, shape modulus, Young's modulus, specifying the strain and stress in each case.

A bar of mild steel 10 feet long and 2 inches in diameter of cross-section is stretched by a load of 7 tons acting along the axis of the bar; if the Young's modulus of the steel is 13,200 tons per square inch, by how much will the bar be extended?

11. State the principles of Archimedes for a body immersed in any fluid, and explain how it may be experimentally verified for a body immersed in water.

Show that if a homogeneous body, of specific gravity s , floats in water with a water line AB the same body can float, if inverted, with the same water line provided the specific gravity is changed to $1-s$.

12. State and prove Torricelli's theorem of the efflux of a liquid from an orifice in a vessel. Explain the *vena contracta*.

A vessel containing water floats in water. If a small orifice is made in the side of the vessel, show that the force acting on the vessel will be twice the thrust which the water in the vessel would exert on the area of the orifice were it closed and no water issued.

13. Sound is conducted along a rod or wire. On what elastic constant of the material does the velocity of propagation of the sound depend, and how may that constant be determined experimentally.

This elastic constant has been determined by observations of the velocity v of sound along wires of the material; given v and any other data that you think necessary, show how to find the elastic constant in question.

14. Describe and explain Koenig's method of determining the velocity of sound in a gas.

Account for the fact that the heating effect in the condensations and the cooling effect in the rarefactions conspire to increase the velocity of propagation of the sound in the gas.

SECOND PAPER—THREE HOURS.

(Candidates are requested not to attempt more than EIGHT of the following questions.)

1 Give a complete but concise account of the experiments which led to the modern view as to the nature of heat. Describe shortly, in this connection, the apparatus employed by Joule in his determination of J .

2. Define mean coefficient of apparent expansion and mean coefficient of absolute expansion of a substance.

A weight thermometer contains 109 grammes of mercury at 0° . Find the mass of mercury which will overflow if the instrument is brought to 100° C. , given that the mean coefficient of expansion of mercury for the given range is $\cdot 000177$, and that of glass, $\cdot 000020$.

3. Define conductivity of a substance for heat, and give some account of a method suitable for the experimental determination of this quantity.

How much heat is conducted per minute across a slab of copper 3 cms. thick and 1 sq. metre in section when a difference of temperature of 10° C. is maintained between its two faces [conductivity of copper, $\cdot 966$ c.g.s. units].

4. What is meant by the critical temperature of a substance?

Describe the experiments of Andrews, and sketch the isothermal (p, v) curves of carbonic acid for temperatures above and below the critical temperature, explaining carefully each part of the diagram. Indicate a sequence of changes by which the substance could be carried from the gaseous to the liquid state without breach of continuity.

5. Show by means of a carefully drawn diagram the formation of the image of an object of sensible dimensions (an arrow, for instance) placed across the axis of a concave spherical mirror.

Obtain the relation, $\frac{1}{v} + \frac{1}{u} = \frac{2}{r}$, which holds for such a mirror; hence trace and tabulate the changes which occur in the position, size, and nature of the image as the object is brought up to the mirror from a very great distance.

6. Prove by any means that the "power" of a lens is given by

$$(\mu - 1) \left(\frac{1}{r} + \frac{1}{r'} \right),$$

where μ is the index of refraction of the material composing the lens, and r and r' are the radii of the faces.

Explain how you would proceed to determine the power of a given convex lens if the sole instrument at your disposal for the purpose consists of a measuring rule. Justify your process by finding the error of the determination for any hypothetical case you think possible in practice.

7. Describe the spectrometer, and explain how it can be used to determine the index of refraction of a refractive material.

In an experiment with such an instrument it was found that with a prism having an angle of 60° , the minimum deviation produced was $30'$. What was the index of refraction of the material composing the prism?

8. Define unit quantity of magnetism and intensity of magnetic field.

A thin bar-magnet of length 50 cms. is placed with its length in the magnetic meridian and its north pole pointing south. It is found that a small pivoted magnet, placed in line with the large magnet and at a distance of 75 cms. from its centre, rests in neutral equilibrium. Deduce the pole strength of the magnet, given that $H = 18$.

9. State Ohm's law for a complete circuit consisting of a voltaic cell and an external resistance.

Give a complete account of a method suitable for the measurement of (1) a moderately high resistance, (2) a very low resistance.

10. Describe how you would proceed to set up a tangent galvanometer, explaining carefully how you would ensure that the mean plane of the coil is placed in the magnetic meridian. Prove the formula

$$C = \frac{H}{G} \tan \alpha,$$

explaining the meaning of each of the quantities.

The mean radius of the coil of a tangent galvanometer is 20 cms., and the coil contains 25 turns. If the needle is suspended at the centre of the coil, find the current necessary to produce a deflection of 60° . [$H = 18$.]

11. Give some account of the phenomena of the induction of currents, and by means of the ideal rails and sliding-bar magneto-electric machine define the practical unit of electro-motive force.

12. An insulated metal sphere of 15 cms. radius is charged to a potential of 100 electrostatic units. The rate of loss of charge at each instant is 2 per cent. per minute of the charge existing at the instant. Find when the charge is reduced to half its original value.

The same sphere is again charged to the same potential and joined by means of a long fine wire to an insulated uncharged sphere of 24 cms. radius; find the common potential and the charge on each sphere.

BOTANY—THREE HOURS.

1. State the distinctive characters of the Floral Structure seen in three of the natural orders of the Polypetalous Dicotyledons represented in the British Flora, with notes on their leading British genera.

2. Give a detailed account of cell-division (*a*) in a vegetative cell, (*b*) in a spore-mother-cell.

3. What are the characteristics of a strand Flora?

4. Discuss the sources of nitrogen supply in the plant.

5. Give a general scheme of classification of the Thallophyta, naming examples from each main group, and stating the habitat of each example.

ASTRONOMY—See pp. 608—610.

CHEMISTRY—See p. 651.

ZOOLOGY—See p. 650.

D.—DEPARTMENT OF HISTORY AND LAW.

BRITISH HISTORY.

FIRST PAPER—THREE HOURS.

(ONE at least of the questions marked * must be taken. Not more than EIGHT questions in all should be attempted.)

*1. Write short notes on: Archbishop Theodore; Queen Margaret of Scotland; Bishop Robert Grossteste of Lincoln; Randolph, Earl of Moray; Cardinal Beaufort.

*2. Describe the geographical position and historical importance of Deorham, Stamford Bridge, Norham, Neville's Cross, Harlaw, Orleans.

*3. Explain the importance of: the battle of Carham (1018); the Treaty of Wallingford; the battle of Bouvines; the Peasant Revolt (1381); the captivity of James I.; the marriage of Edward IV.

4. Draw a sketch map of Roman Britain, marking the chief cities and the walls of Hadrian and Antonine. Sum up the most permanent effects of the Roman occupation.

5. Discuss the significance of the fact that "in the earliest English literature there are not more than ten Celtic words."

6. What causes were at work from Alfred's treaty with the Danes (878) to Edgar's coronation at Bath (973) to increase the power of the West Saxon Kings.

7. "The Norman Conquest is as liable to be under-rated as to be over-rated." Explain this remark.

8. In what respects did representative institutions advance in the reigns of (*a*) Henry II., (*b*) Henry III.?

9. Account for Edward I.'s failure in Scotland as compared with his success in Wales.

10. What is meant by calling the fourteenth century "the century of the Commons"?

11. By what means did the Papacy exercise its influence over the Church in England?

12. Discuss the character of *one* of these: Edward III., Henry V., Warwick (the King-Maker), Richard III.

SECOND PAPER—THREE HOURS.

(ONE at least of the questions marked * must be taken. Not more than EIGHT questions in all should be attempted.)

*1. Write short notes on: Perkin Warbeck; Cardinal David Beaton; Sir Walter Raleigh; Alexander Leslie; the first Earl of Shaftesbury; Lord Somers.

*2. Describe the geographical position and importance of: Boulogne; Carberry Hill; La Rochelle; Blenheim; Dettingen; Yorktown.

3. Compare the power of the Crown under Henry VII. and Henry VIII.

4. Contrast the English with the Scottish Reformation.

5. Was Elizabeth's success due most to herself or to her ministers, or to fortune?

6. Estimate the responsibility both of James I. and of Charles I. for the Civil War.

7. It was said of Oliver Cromwell that "he could neither rule with Parliaments nor without them." Explain this saying.

8. Illustrate from the reigns of William III. and Anne the way in which the Revolution had limited the powers of the Crown.

9. Why did the Union of England with Scotland produce much better results than the Union of Great Britain with Ireland?

10. Illustrate the importance of British sea power in any of the wars of the eighteenth century.

11. Estimate the services of any *one* of the following: Robert Walpole; Edmund Burke; C. J. Fox; the younger Pitt.

12. Explain the statement that "England saved Europe" in the Napoleonic war.

CONSTITUTIONAL LAW AND HISTORY—See p. 664.

CIVIL LAW—See pp. 656, 657.

II. FOR THE DEGREE WITH HONOURS.

(And for Snell Exhibition, April, 1904.)

A.—GROUP OF CLASSICS.

LATIN TRANSLATION—THREE HOURS.

1. Translate according to your 'profession':—

(a) Virgil, *Aen.* x. 62—80.

(b) Hor. *Ep.* i. 4. 1—16.

(c) Hor. *Ars. Poet.* 323—340.

(d) *Either* Lucret. ii. 991—1006, or Lucret. iv. 580—594.

(e) Juv. *Sat.* x. 248—266.

(f) Pers. iii. 94—106.

- (g) Catull. lxxviii. 121—132.
 (h) *Either* Mart. III. lviii. 1—11, or Mart. VII. xx. 1—12.
 (i) Cic. *Phil.* v. §§ 39, 40.
 (k) *Either* Livy I. xlvi. 1—6, or Livy XXI. liii. § 7—liv. 1.
 (l) Tac. *Ann.* xii. 43.

2. Translate and explain :—

- (a) Ipse, Quirinali trabea cinetuque Gabino
 Insignis, reserat stridentia limina consul.
 (Virg. *Aen.* VII. 612, 613.)
 (b) Sit Medea ferox invictaque, flebilis Ino,
 Perfidus Ixion, Io vaga, tristis Orestes.
 (Hor. *Ars Poet.* 123, 124.)
 (c) Murice Baiano melior Lucrina peloris,
 Ostrea Circeis, Miseno oriuntur echini,
 Pectinibus patulis iactat se molle Tarentum.
 (d) Ipse Epicurus obit decurso lumine vitae,
 Qui genus humanum ingenio superavit et omnis
 Restinxit stellas exortus ut aetherius sol. (Lucr. iii. 1042—1047.)
 (e) Si quid Palfurio, si credimus Armillato,
 Quidquid conspicuum pulchrumque est aequore toto,
 Res fisci est, ubicumque natat. (Juv. *Sat.* iv. 53—55.)
 (f) Hic Dama est non tresis agaso,
 Vappa lippus, et in tenui farragine mendax :
 Verterit hunc dominus, memento turbinis exit
 Marcus Dama. (Pers. v. 76—79.)
 (g) Est ergo flamen. ut Iovi, ut Marti, ut Quirino, sic divo Iulio M.
 Antonius? (Cic. *Phil.* ii. 110.)

Either,

(h) Igitur tribuni, ut impediendae rei nulla spes erat, de proferendo exercitu agere, eo magis, quod et augures iussos adesse ad Regillum lacum fama exierat, locumque inaugurari, ubi auspicio cum populo agi posset, ut, quicquid Romae vi tribunicia rogatum esset, id comitiis ibi abrogaretur: omnis id iussuros, quod consules vellent; neque enim provocationem esse longius ab urbe mille passuum, et tribunos, si eo veniant, in alia turba Quiritium subiectos fore consulari imperio.

(Livy III. 20.)

Or,

Si ita faxitis Romani, vestrae res meliores facilioresque erunt, magisque ex sententia res publica vestra vobis procedet, victoriaque duelli populi Romani erit.

(Livy XXIII. 11.)

(i) At Pallas id maxime in Agrippina laudare, quod Germanici nepotem secum traheret: dignum prorsus imperatoria fortuna stirpem nobilem, et familiae Iuliae Claudiaequae posteros coniungere.

(Tac. *Ann.* XX. 2.)

(k) *Mil.* Iamst ante aedis circus ubi sunt ludi faciundi mihi.

Dissimulabo hos quasi non videam neque esse hic etiam-
 dum sciam.

Pyr. Tace: subauscultemus, ecquid de me fiat mentio.

- Mil.* Numquis hic prope adest qui rem alienam potius curet quam suam?
 Qui aucupet me quid agam? qui de uesperis uiuat suo?
 Eos nunc homines metuo ne obsint mihi, neue opstent uspiam,
 Mea era, quous propter amorem cor nunc miserae contremat,
 Domo si ibit, clam ut huc transbitat, quae huius cupiens corporis,
 Quae amat hunc hominem nimium lepidum et nimia pulcritudine,
 Militem Pyrgopolinicum.
- Pyr.* Meam laudat speciem. Satin haec quoque me deperit?
- Pa.* rem quaeritat. Edepol huius sermo haud cine-
- Pyr.* Quo argumento?
- Pa.* Quia enim loquitur laute et minime sordide.
 (Quidquid istaec de te loquitur, nihil attrectat sordidi.)
 Tum autem illa ipsast nimium lepida nimisque nitida femina.
- Pyr.* Herele uero iam adlubescit primulum, Palaestrio.
- Pa.* Priusne quam illam oculis uidisti?
- Pyr.* Video id quod credo tibi.
 Tum haec celocula illa absente subigit me ut amem.
 (Plaut. *Mil. Glor.* IV. ii. 1—15.)

LATIN PROSE—THREE HOURS.

The English statesmen of the generation which follows the Restoration had neither the enthusiasm of the Cavalier nor the enthusiasm of the Republican. They had been early emancipated from the dominion of old usages and feelings; yet they had not acquired a strong passion for innovation. Accustomed to see old establishments shaking, falling, lying in ruins all around them, accustomed to live under a succession of constitutions, of which the average duration was about a twelve-month, they had no religious reverence for prescription, nothing of that frame of mind which naturally springs from the habitual contemplation of immemorial antiquity and immovable stability. Accustomed, on the other hand, to see change after change welcomed with eager hope and ending in disappointment, to see shame and confusion of face follow the extravagant hopes and predictions of rash and fanatical innovators, they had learned to look on professions of public spirit, and on schemes of reform, with distrust and contempt. They sometimes talked the language of devoted subjects, sometimes that of ardent lovers of their country. But their secret creed seems to have been, that loyalty was one great delusion and patriotism another. The sense of political honour seemed to be extinct.

MACAULAY'S ESSAYS: *Sir William Temple.*

LATIN GENERAL PAPER—Two Hours.

A. UNPREPARED TRANSLATION.

Translate:—

Advenientem male animatus erga principem exercitus pronusque ad res novas libens ac supinis manibus excepit, velut dono deum oblatum, ter consulis filium, aetate integra, facili ac prodigo animo. Quam veterem de se persuasionem Vitellius recentibus etiam experimentis auxerat, tota via caligatorum quoque militum obvios exosculans, perque stabula et deversoria mulionibus ac viatoribus praeter modum comis, ut mane singulos, iamne ientassent, sciscitaretur. Castra vero ingressus nihil cuiquam poscenti negavit atque etiam ultro ignominiosis notas, reis sordes, damnatis supplicia dempsit. Quare vixdum mense transacto, neque diei neque temporis habita ratione, ac iam vespere, subito a militibus e cubiculo raptus, ita ut erat, in veste domestica, imperator est consulatus circumlatusque per celeberrimos vicos, strictum Divi Iulii gladium tenens, detractum delubro Martis, atque in prima gratulatione porrectum sibi a quodam: nec ante in praetorium rediit, quam flagrante triclino ex conceptu camini, cum quidem consternatis et quasi omine adverso anxiis omnibus. Bono, inquit, animo estote! nobis alluxit; nullo sermone alio apud milites usus. Consentiente deinde etiam superioris provinciae exercitu, qui prius a Galba ad senatum defecerat, cognomen Germanici delatum ab universis cupide recepit. Augusti distulit, Caesaris in perpetuum recusavit. Ac subinde caede Galbae adnunciata, compositis Germanicis rebus, partitus est copias, quas adversus Othonem praemitteret, quasque ipse perduceret.

(Suetonius, *Vitellius*.)

B. PROSODY.

Scan any *sic* of the following verses. Name the measure and remark on any of the prosodiocal licenses:—

- (a) Solis lunai cursus ex ordine ponam.
- (b) Quis expedit psittaco suum chaere.
- (c) Intervalla vias conexus pondere plagas.
- (d) Quodsi interciderit tibi nunc aliquid repetes mox.
- (e) Nunc vivit necuter sibi bonosque.
- (f) Tibi haec fuisse et esse cognitissima.
- (g) Iuno dicta puerperis.
- (h) Salve o venusta Sirmio atque hero gaude.
- (i) Quem mulcent aurae firmat sol educat imber.
- (k) Sive trans altas gradietur Alpes.

C. HISTORY AND LITERATURE.

(Not more than FIVE of these questions should be attempted.)

1. Institute a comparison between *either* Livy or Tacitus and any Greek historian you like to choose.
2. Account for the absence in Latin of a past participle active. How was its place supplied?

3. Discuss the question to what extent the Roman Empire (in its early period) was a benefit to the civilized world.

4. How far were the Italians successful in Lyric?

5. Draw out a comparison (with facts and dates) between Pompey and Caesar, as soldiers and politicians.

6. Sketch the development of Latin prose between Cicero and Quintilian.

7. In what respects do the three extant Roman satirists differ from one another?

8. If Papyrus were to restore to us a lost Latin classic, which would you wish it to be?

GREEK TRANSLATION—THREE HOURS.

Translate:

I. PRESCRIBED BOOKS.

(a) HOM. *Il.* IX. 378—392.

Explain *καρὸς*, v. 378; the variant *Ἐρχομένων*, v. 381: the allusion in v. 382.

(b) HOM. *Od.* XI. 488—503.

Comment on the forms *θηγενέμεν*—*Πηληγος*—*δῶ*—*ἐγών*, and on the meaning of *Ἑλλάδα*.

(c) AESCH. *Agam.* 909—921.

Derive *τιμαλφείν*—*ποδοψήστρων*—*εἰεστοί*.

(d) SOPH. *Antig.* 100—116.

Scan the first three lines of the strophe.

(e) *Either*, HEROD. VII. 115.

Describe the position of the places mentioned.

Or, THUC. I. 140, § 1.

Who is the speaker? and under what circumstances was his speech delivered?

(f) *Either*, PLATO, *Phaedo*, 96 A—C.

Who is the speaker? and how does this profession agree with what we otherwise know of his teaching?

Or, PLATO, *Rep.* 424 B—C.

Who were the persons mentioned?

(g) *Either*, ARISTOT. *Poet.* c. 14.

Explain the words *ἔψις* and *χορηγία*, and the meaning of the last clause (*οὐ γὰρ πάντες . . . οἰκίαι*).

Or, ARISTOT. *Polit.* I. 8, § 3.

II. OPTIONAL BOOKS.

Translate according to your profession:

PIND. *Pyth.* II. 46—69: Strophe γ down to *ἐπαυεῖν παρεχοντι*.

AESCH. *Choroph.* 561—580: *ἀμφω δὲ φωνήν* . . . *τὰ λαβὰ*.

AESCH. *Prom. Vinct.* 314—326: *ἔα, τί χρῆμα*; . . . *ἐν θεῶς*.

SOPH. *Oed. Col.* 1568—1578: *ὦ χθονίαί θναι* . . . *αἰετιπνον*.

EURIP. *Med.* 956—968: λάβυσθε . . . χρυσοῦ μόνον.

ARISTOPH. *Acharn.* 456—470: λυπηρὸς . . . δράματα.

ARISTOPH. *Nub.* 872—885: ἰδοὺ κρέμαι' . . . πάσῃ τέχνῃ.

THUCYD. II. 76. 3, 4.

THUCYD. V. 97, 98.

THUCYD. VI. 68.

DEM. *De Cor.* 248, 249 (310): Down to Ἀθηναίους ἐσφύζουην.

THEOCRIT. *Idyll.* XI. 30—43.

HERODAS, III. 53—67.

APOLL. RHOD. *Argon.* III. 648—664.

GREEK PROSE AND UNPREPARED TRANSLATION.

THREE HOURS.

1. Translate into Greek Prose:

Different were the effects that the death of Cromwel produced in the nation: those men who had been sharers with him in the usurped authority were exceedingly troubled, whilst all other parties rejoiced at it: each of them hoping that this alteration would prove advantageous to their affairs. The Commonwealthsmen were so charitable as to believe that the souldiery being delivered from their servitude to the General would now open their eyes and join with them, as the only means left to preserve themselves and the people. Neither were the Cavaliers without great hopes that new divisions might arise, and give them an opportunity of advancing their minion, who had been long endeavouring to unite all the corrupt interests of the nation to his party. But neither the sense of their duty, nor the care of their own safety, nor the just apprehension of being overcome by their irreconcilable enemy, could prevail with the army to return to their proper station. So that having tasted of sovereignty under the shadow of their late master, they resolved against the restitution of the Parliament, and in order to this it was agreed to proclaim Richard Cromwel, eldest son to Oliver, Protector of the Commonwealth, in hopes that he, who by following his pleasures had rendered himself unfit for publick business, would not fail to place the administration of the government in the hands of those who were most powerful in the army.

Ludlow's Memoirs.

2. Translate into English:

(a) *Apoll. Rhod.* B. 911—939.

(b) *Xenoph. Symp.* VI. 6—10.

GREEK GENERAL PAPER—TWO HOURS.

(Candidates should attempt question 1, and not more than FOUR of the remainder.)

1. Translate with brief comments upon the syntax:

(a) Ζεὺ πατερ, ἢ πάντα λαχεῖν ἢ τι θεὸς νῦν.

(b) ὁ λαγὼς τὴν περὶ ψυχῆς τρέχει.

(c) ὁ νόμος τίθησι ἐφ' οἷς ἐξείναι ἀπιέναι.

(d) τί ὅητα ποῦδες ἂν οἶκ ἂν εἰργασαίτο;

(e) ὁ πολὺς τοῦ λογοῖ τοῦτοισὶ ἔσται ὡς εἰσποιηθήσαν.

2. What do you understand by irrational negative, retained accusative, σχῆμα καθ' ὅλον καὶ μέρος, nominativus pendens, hypallage?

3. What signs of change and development in civilisation may be observed within the Homeric poems?

4. 'Et quicquid Græcia mendax Audet in historia.' Discuss the credibility of Herodotus.

5. What evidence is there that Greek religious belief varied materially at different periods?

6. Was Plato's ideal state practicable, and did he intend it as practicable?

7. Describe the position of Comedy in Greece in different centuries.

8. Trace the history of Tragedy down to the death of Sophocles.

9. Consider the value of the literature of the fifth century which has been lost.

10. Estimate briefly the work of *three* of the following: Bacchylides, Xenophon, Aristarchus, Agathon, Menander, Epictetus.

11. What, if any, are the limitations of Aristotle's theory of poetry?

12. Describe the importance of *either* Dodona *or* Delos at different periods in Greek history.

13. Write a brief account of Megara from the political and literary side.

14. What evidence do we possess as to the political and economic condition of Magna Græcia in the sixth century B.C.?

15. What traces do we find (*a*) of the political, and (*b*) of the artistic influence of Athens in the Italian Peninsula between 450 and 420 B.C.?

16. What do you understand by the 'Coan School'?

B.—GROUP OF MENTAL PHILOSOPHY.

LOGIC.

FIRST PAPER—THREE HOURS.

(*Not less than SIX questions to be attempted.*)

1. Explain the significance of the views of Empedocles (*a*) in relation to Parmenides, and (*b*) in relation to Plato.

2. What were the chief features of the Atomism of Leucippus, and how was it related to earlier thought?

3. Give some account of the Sophist movement, indicating its relations (*a*) to the earlier "nature-philosophies," and (*b*) to the general conditions of its own time.

4. How does Plato meet the Protagorean doctrine of the relativity of knowledge? Give his constructive views on this point and compare them with those of Aristotle.

5. Explain carefully the illustration of the subdivided line in Plato's *Republic*, Book VI.

6. Discuss Plato's view of "opinion," referring specially to his contention in the *Theaetetus* that knowledge is not true opinion *μετὰ λόγον*.

7. Discuss the transformation of Plato's theory of ideas, which is indicated in the *Sophistes* and *Philebus*.

SECOND PAPER—THREE HOURS.

(Not less than six questions to be attempted.)

1. "Without the notion of the thing-in-itself we cannot enter into the Critical Philosophy; with that notion we cannot remain in it."

Carefully explain and examine this statement.

2. Explain and discuss Kant's statement that "space is not a discursive or general conception of the relations of things, but a pure perception."

3. What is the connection in the Kantian philosophy between the categories of Substance and Causality? How far does Kant's treatment throw light on the real nature of Causality?

4. "The object known is nothing but the representation of necessary determined order in the given contents of experience."

Explain the position implied in this statement, and discuss the question whether it enables Kant to escape "subjective idealism."

5. Explain the distinction between "mediate" and "immediate" knowledge.

6. "In every proposition an analysis of the meaning will find a reality of which something else is affirmed or denied." (Bradley.)

Examine this statement, discussing its application to the following propositions:

(a) No unicorns have ever been seen.

(b) A square circle is a contradiction.

(c) If I had any ideas on the subject, I would let you know them.

7. "No sense, in its original state, informs us of more than certain conditions of our organism. Critically examine and discuss.

MORAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

1. "Aristotle's preference of the contemplative over the practical life was based upon a dualism which he failed to solve." Examine this statement, and show in what ways his view affected subsequent Greek thought.

2. What, according to Aristotle, is the relation of Law to Justice? Compare the views of Plato and Aristotle as to the nature of Justice.

3. State and examine Spinoza's view of the relation of the will to the intelligence.

4. Discuss the relation of the idea of Value to that of Reality.

5. Upon what grounds does Kant maintain that all duties are absolute duties? Can the moral ideal be at once conceived as Duty and as Absolute?

6. Discuss the view that only the Infinite can have complete Personality? Is the idea of 'personality' attributable to the Absolute?

7. Give a critical account of Green's view of Desire and of its relation to Will and Reason. Examine his theory in relation to the wilful choice of evil.

SECOND PAPER—THREE HOURS.

1. "Hegel's metaphysical doctrine, like that of Aristotle, leaves unsolved the contradictions involved in the conception of Evolution." Explain and examine this statement.

2. "Absolute Idealism endeavours to start from a theocentric pre-supposition, and therefore leaves no room for morality." Is this true?

3. What main difficulties does Kant's view of the Ego introduce into his ethical theory? Contrast his view of the Self with that of Hegel.

4. Examine the attempt of Lotze or Ward to show that relations are the results of the inter-action of objects? What is the ethical significance of this view?

5. What is the relation between "what is" and "what ought to be"? Apply your view to Evolutionary Ethics.

6. Compare and discuss the views of Spinoza and Hegel of the nature of evil.

7. "The ideals of Art, Morality and Knowledge are mutually inclusive." Examine this statement, and discuss in connection therewith the view of Lotze on this question.

LOGIC AND MORAL PHILOSOPHY.

THIRD PAPER—FOUR HOURS.

(*Not less than THREE questions in each section must be attempted.*)

SECTION A.

1. Discuss the conception of "normal political constitution" as it appears in Plato and Aristotle.

2. "For Hobbes the end of the State was the preservation of order, for Spinoza the perfection of the individual."

Examine this statement.

3. "Experience is experiment." "Our beliefs are hypotheses thrown out to be tested by experience."

Give a critical explanation of the view of knowledge implied in these terms, and indicate its ethical significance.

4. What is the place of "private property" in the development of the moral life?

SECTION B.

5. What are the main stages in the development of self-consciousness?
6. How do we come to distinguish between past, present, and future?
7. Examine the statement that "in many cases we can easily think what we do not and cannot believe."
8. Discuss the view of Mr. Spencer that axiomatic truths are "*a priori* for the individual, but *a posteriori* for that entire series of individuals of which he forms the last term."

C.—GROUP OF MATHEMATICS AND NATURAL
PHILOSOPHY.

MATHEMATICS.

FIRST PAPER—THREE HOURS.

(NOTE.—Candidates are requested not to attempt more than EIGHT of the following questions.)

1. Solve the equations

$$y^2 + z^2 - x(y + z) = a, \quad z^2 + x^2 - y(z + x) = b, \quad x^2 + y^2 - z(x + y) = c.$$

Eliminate x and y from the equations

$$x - \frac{1}{x} = a, \quad y - \frac{1}{y} = b, \quad \frac{x}{y} - \frac{y}{x} = c,$$

expressing the resultant in a rational form.

2. Show by direct condensation that of the two series

$$(i) \sum_1^{\infty} \frac{1}{n}; \quad (ii) \sum_1^{\infty} \frac{1}{n \sqrt[n]{n}},$$

the first is divergent and the second convergent.

Prove that if each term of the series $\sum U_n$ is positive the series is convergent or divergent according as the limit for

$$n = \infty \text{ of } n(1 - U_{n+1} / U_n)$$

is greater or less than unity.

Show that the series

$$\frac{x}{x+3} + \frac{x(x+2)}{(x+3)(x+5)} + \frac{x(x+2)(x+4)}{(x+3)(x+5)(x+7)} + \dots$$

is convergent except when x is a negative integer.

3. Investigate the relations that connect the roots and the coefficients of an algebraic equation. Find the condition that the roots $\alpha, \beta, \gamma, \delta$ of the equation

$$x^4 + ax^3 + bx^2 + cx + d = 0$$

should be connected by the relation $\alpha\beta = \gamma\delta$.

Two of the roots x_1, x_2 , of the equation

$$10x^4 - x^3 - 28x^2 + 9 = 0$$

are connected by the relation $1/x_1 + 1/x_2 = 1$; solve the equation.

4. $f(x)$ is a rational integral function of x of the n^{th} degree and the roots of $f(x) = 0$ are all real and different; show that the roots of $f(x) + \lambda f''(x) = 0$ are all real and different, λ being any constant.

$F(x)$ is a rational integral function of x and the roots of $F(x) = 0$ are all complex; show that the equation

$$f'(x)F''(x) - F(x)f'''(x) = 0$$

has at least $(n-2)$ real roots, $f(x)$ satisfying the same conditions as in the first part of the question.

5. Prove for any triangle the relations

$$(i) a^2 \sin(B-C) + b^2 \sin(C-A) + c^2 \sin(A-B) = 0;$$

$$(ii) a^3 \cos(B-C) + b^3 \cos(C-A) + c^3 \cos(A-B) = 3abc.$$

If I is the centre of the circle inscribed in a triangle and α is any angle, show that

$$IB \sin B \sin(\frac{1}{2}C - \alpha) + IC \sin C \sin(\frac{1}{2}B + \alpha) = IA \sin A \cos \alpha.$$

6. Express $x^{2n} - 2x^n \cos \theta + 1$ as the product of n real quadratic factors. Establish the identities

$$(i) \cosh \theta = \prod_{i=1}^{\infty} \left(1 + 4 \sinh^2 \frac{\theta}{3^i} \right)$$

$$(ii) \cosh 2n = \cos 2\theta = 2(\theta^2 - n^2) \prod_{i=1}^{\infty} \left(1 - \frac{n^2 \pi^2}{\theta^2 \pi^2} \right);$$

and find the value of $\prod_{i=1}^{\infty} \left(1 + \frac{1}{4n^4} \right).$

7. Prove for a spherical triangle

$$\cot a \sin b = \cot A \sin C + \cos b \cos C.$$

Show that

$$\frac{\tan a \sin c + \cos B \cos c}{\sin B} = \frac{\tan A \tan C - \cos b}{\tan C + \tan A \cos b}.$$

If the base BC of a spherical triangle is fixed and the ratio of $\tan B$ to $\tan C$ constant find the locus of the vertex A .

8. If r is the radius of the inscribed circle of a spherical triangle show that

$$\cot^2 r \sin^2 a = \cot^2 \frac{1}{2} B + \cot^2 \frac{1}{2} C + 2 \cos a \cot \frac{1}{2} B \cot \frac{1}{2} C.$$

If x, y, z are the radii of three small circles of a sphere of radius r which touch at P, Q, R and A, B, C are the angles of the spherical triangle formed by joining their centres, then the area PQR bounded by the circles is equal to

$$(A \cos x + B \cos y + C \cos z - \pi)r^2.$$

What does this expression become when r becomes infinite?

9. Prove, geometrically or analytically, that the difference of the squares of the tangents from any point P to two circles varies as the perpendicular from P on their radical axis.

Show that the circles described on the diagonals of a complete quadrilateral as diameters are co-axial.

10. Find the locus of the middle points of a system of parallel chords of a parabola.

A chord PQ of a parabola is normal to the curve at P and the diameter for chords parallel to PQ meets the curve at T ; find the locus of the middle point of VP .

11. Find the equations of the asymptotes and of the axes of the hyperbola

$$x^2 + 2xy - 3y^2 + 4y = 0.$$

Given the centre, one asymptote and one point on a hyperbola, find the locus of its vertices.

12. Show how to find the foci of a conic given by the general equation of the second degree.

One focus and two points on a conic are given; if the line joining the two points subtends a right angle at the focus, find the locus of the centre of the conic.

SECOND PAPER—THREE HOURS.

(NOTE.—Candidates are requested not to attempt more than SEVEN of the following questions.)

1. Find from first principles the differential coefficient of

$$(i) \cos x; \quad (ii) x^{\frac{2}{3}} \cos x.$$

Trace the changes in the value of

$$8x + 4x \cos 4x - 3 \sin 4x$$

as x increases from 0 to π .

2. Find the differential coefficient of e^x .

Show that
$$\frac{d^n}{dx^n} (x^{n-1} e^{\frac{1}{x}}) = (-1)^n \frac{e^{\frac{1}{x}}}{x^{n+1}}.$$

Find the turning values of $x^2 e^{-x}$ and graph the function.

3. Given $z = f(x, y)$ where x and y are functions of t , find the total differential coefficients $\frac{dz}{dt}, \frac{d^2z}{dt^2}$ in terms of $\frac{\partial z}{\partial x}, \frac{\partial^2 z}{\partial x^2}, \dots, \frac{dx}{dt}, \frac{d^2x}{dt^2}, \dots$

If $z = f(x, y)$ is a function of two independent variables, and if p, q, r, s, t denote $\frac{\partial z}{\partial x}, \frac{\partial z}{\partial y}, \frac{\partial^2 z}{\partial x^2}, \frac{\partial^2 z}{\partial x \partial y}, \frac{\partial^2 z}{\partial y^2}$ respectively, express $\frac{\partial^2 y}{\partial x^2}, \frac{\partial^2 y}{\partial x \partial z}, \frac{\partial^2 y}{\partial z^2}$ in terms of p, q, r, s, t where y is considered to be a function of the two independent variables x, z defined by $z = f(x, y)$.

4. Define a *singular point* of a plane curve. Examine the nature of the origin on the curve given by

$$y^4 - x^4 + y^2 - 4x^2y = 0.$$

Find the asymptotes of the curve and trace it.

5. Write down the conditions that the curves $y = f(x), y = \phi(x)$ should have contact of the n^{th} order, and find the equation of the circle that has contact of the second order with the ellipse $x^2/a^2 + y^2/b^2 = 1$ at a given point on it.

Show that the envelope of the common chords of the ellipse and its circles of curvature is given by

$$\left(\frac{x}{a} + \frac{y}{b}\right)^{\frac{2}{3}} + \left(\frac{x}{a} - \frac{y}{b}\right)^{\frac{2}{3}} = 2.$$

6. Establish the condition that the two straight lines

$$\frac{x-a}{l} = \frac{y-b}{m} = \frac{z-c}{n}, \quad \frac{x-a'}{l'} = \frac{y-b'}{m'} = \frac{z-c'}{n'}$$

should intersect.

Find the equation of the cone whose vertex is at a focus of the ellipse $x^2/a^2 + y^2/b^2 = 1$, and whose base is the section by any plane of the ellipsoid generated by the revolution of the ellipse about its major axis.

7. Find the area and the axes of the section of the ellipsoid

$$x^2/a^2 + y^2/b^2 + z^2/c^2 = 1$$

by the plane

$$lx + my + nz = 0.$$

P, Q are the points $(x_1, y_1, z_1), (x_2, y_2, z_2)$ on the ellipsoid; determine the locus of the centre of the section by a plane through PQ .

8. Investigate the equations of the normal at a given point on a central conicoid.

If the middle points of normal chords of an ellipsoid lie in a plane, show that the ends of the chords at which they are normal lie on a cubic surface which intersects the given plane in a straight line.

9. Find expressions for the curvature and the torsion of a curve.

A curve makes a constant angle α with the generators of the cone

$$x^2 + y^2 = z^2 \tan^2 \beta;$$

find the equations of the curve and calculate the curvature and the torsion at any point.

10. Define the *Indicatrix*, and show that the radius of curvature of a normal section of a surface varies as the square of the corresponding central radius of the indicatrix.

(ξ, η, ζ) is a point on the curve of intersection of the surfaces

$$(i) \frac{x^2}{a} + \frac{y^2}{b} = 2z; \quad (ii) \frac{x^2}{a-\lambda} + \frac{y^2}{b-\lambda} = 2z - \lambda.$$

Express in terms of ξ, a, b, λ the two principal radii of curvature at (ξ, η, ζ) .

THIRD PAPER.—Two Hours.

(NOTE.—Candidates are requested not to attempt more than FIVE of the following questions.)

1. Integrate the following functions :

$$(i) \frac{\sqrt{x^2 + 2x + 5}}{x-1}; \quad (ii) \frac{\sin^2 x}{1 + 2 \sin x}; \quad (iii) \frac{1}{x^4(1 + 2x)^2}.$$

In the integral

$$\int_0^x \frac{dx}{(x^2 - 2x + 5)^n}$$

change the variable by the substitution $y = x^2 - 2x + 5$.

2. Prove

$$B(m, n)\Gamma(m+n) = \Gamma(m)\Gamma(n).$$

Assuming the value of $\Gamma(m)\Gamma(1-m)$, deduce the value of

$$\Gamma\left(\frac{1}{n}\right)\Gamma\left(\frac{2}{n}\right)\Gamma\left(\frac{3}{n}\right)\dots\Gamma\left(\frac{n-1}{n}\right).$$

If

$$\phi(p) = (1-x)^{1-p} \left\{ 1 + \sum_{n=1}^{\infty} \frac{x^n}{n^p} \right\},$$

show that, when x and p are each positive proper fractions,

$$\phi(p) - (1+x)(1-x)^{1-p} < \int_1^{1+x} (1-x)^{1-p} \frac{x^n}{n^p} dx < \phi(p) - (1-x)^{1-p},$$

and then prove that the limit of $\phi(p)$ for x converging to 1 is $\Gamma(1-p)$.

3. A function $f(x)$ is defined by an infinite series; state and prove as fully as you can under what conditions the integral of $f(x)$ is obtained by integrating the series term by term. State without proof the conditions that the derivative of $f(x)$ may be obtained by differentiating the series term by term.

Evaluate:

$$(i) \int_0^1 x^p + x^{-p} \log(1+x) dx; \quad (ii) \int_0^1 \frac{(\log x)^2}{1-x} dx.$$

4. Integrate the equations:

$$(i) (1-x) \left(\frac{dy}{dx} + y^2 \right) = (1-x)y;$$

$$(ii) x \left(\frac{dy}{dx} \right)^2 - 3y \frac{dy}{dx} + 9x^2 = 0.$$

If

$$(1-x^3) \frac{dy}{dx} - 4x^2y = 1-x-x^2,$$

find a series for y satisfying the condition that $y=1$ when $x=0$.5. Integrate, D meaning d/dx :

$$(i) D^3y + D^2y - 5Dy + 3y = (x+1)e^x + \cos x;$$

$$(ii) (x-1)^2 D^2y + (x-1)Dy - 4y = \log(x-1);$$

$$(iii) D^2y + Dz + y + z = x, \quad D^2y + D^2z + Dz + z = e^x.$$

6. State and prove the condition that u, v, w , three functions of x, y, z , should be connected by an equation of the form $f(u, v, w) = 0$ which does not contain x, y, z explicitly.

Find the partial differential equation which is satisfied by

$$z^2 = (ax + by)^2 + 2ab - 2a - 2b,$$

where a, b are arbitrary constants.

7. State and prove a method of integrating the equation

$$P \frac{z}{x} + Q \frac{z}{y} = R.$$

$$\text{Integrate} \quad (2x-y) \frac{z}{x} + (x-2y) \frac{z}{y} + 2(x^2 - xy + y^2) = 0.$$

Find the integral surface of the equation

$$\frac{z}{x} - \frac{z}{y} = x - y$$

which contains the line $x=y=z$.

8. Define an analytic function. If $f(z)$ is an analytic function, regular and single-valued at all points in the interior of a closed contour, show that

$$\int f(z) dz = 0$$

where the integration is taken round the boundary.

If a is a point within the contour, show that

$$f(a) = \frac{1}{2\pi i} \int \frac{f(z) dz}{z - a},$$

the integration being taken round the boundary.

Evaluate by the methods of complex integration,

$$\int_{-\infty}^{\infty} \frac{x^{2n} dx}{x^2 + 1}.$$

NATURAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

(NOTE.—Candidates are requested not to attempt more than EIGHT of the following questions.)

1. Establish expressions for the velocity and the acceleration of a point along and perpendicular to the radius vector to the point, the motion being in a plane curve.

A plane is moving about an axis perpendicular to it and a particle is moving in a given curve traced on the plane: in any position, ω is the angular velocity of the plane, v the velocity of the particle relative to the plane, r its distance from the axis, p the perpendicular on the tangent and s the arc described along the plane: prove that the acceleration along the tangent to the curve is

$$v \left(\frac{dv}{ds} + p \frac{d\omega}{ds} \right) - \omega^2 r \frac{dr}{ds}.$$

2. Write down and integrate the equation of motion of a particle falling vertically from rest under gravity, assuming that the resistance of the air varies as the square of the velocity.

Assuming that the resistance of the air to a cannon ball is in the direction of the tangent to its path and equal to μv (velocity) 2 , show that

$$\frac{dv}{dt} = -\frac{g}{u_0} \left\{ 1 - \frac{v u_0^2}{g} (3H^2 + p^2) \right\}^{\frac{1}{2}},$$

where u_0 is the velocity at the highest point of the path and $\tan^{-1} p$ is the inclination to the horizontal of the direction of the ball's motion.

3. Establish the differential equation of a central orbit.

If the plane of the orbit revolves with an angular velocity proportional at each instant to the angular velocity of the radius vector relative to the

plane, show that the new orbit is also central and that the force in the new orbit differs from that in the old by a term which is inversely proportional to the cube of the distance from the centre. If the original orbit is an ellipse determine the new apsidal angle.

4. Define *Body Centrode* and *Space Centrode*. A plane area is moving in its own plane; find the acceleration of any point in it parallel to the tangent and normal to the space centrode at the instantaneous centre of rotation.

Show that the points of the plane such that at any instant the acceleration along their direction of motion is zero lie on a circle.

5. Investigate expressions for the momentum, the moment of momentum, and the kinetic energy of a rigid body in uniplanar motion.

A uniform rectangular lamina $ABCD$ is rotating about the diagonal AC ; the axis AC is suddenly freed and a parallel axis through D fixed. Show that the angular velocity is suddenly diminished to $\frac{1}{4}$ th of its value immediately before the freeing and fixing of axes.

6. Prove Euler's equations of motion for a rigid body rotating about a fixed point.

A top which has two of its principal moments of inertia equal is given a very great angular velocity about the principal axis of unequal moment, and is then placed so that it spins without friction about a sharp peg on which it rests. Show that the precessional motion is nearly steady and find the period of the small oscillations.

7. Establish Lagrange's Equations of Motion.

A heavy particle m_1 is suspended by a light cord of length l ; to m_1 is attached another particle m_2 by a light cord which is being continually lengthened, its length at time t being r ; the two particles oscillate in a vertical plane through the point of suspension. Find the kinetic energy of the masses and form the equations that determine the small oscillations about the position of equilibrium. Taking $r = l + bt$ where b is very small, find a first approximation to the solution of the equations.

8. A string lying on a given curve is set in motion by a tangential impulse applied at one end; find the differential equation which determines the tensile impulse at any point of the string.

If the string is of uniform density and thickness, and if the radius of curvature at the distance s along the string from the end at which the impulse is applied is $(a^2 + s^2)/a$, where a is a constant, find the tensile impulse at any point of the string.

9. Find the attraction of a spherical segment of uniform density on a particle at the centre of the base.

The density of a sphere is a function of the distance from the centre, the law of attraction being that of the inverse square; F is the attraction and ρ the density at distance h from the centre, while ρ_{mb} is the mean density of the sphere of radius b . Prove that

$$\frac{dF}{dh} = 4\pi(\rho_s - \frac{2}{3}\rho_{mb}).$$

Representing the relation between h and ρ_{mb} by a curve, h being the abscissa and ρ_{mb} the ordinate, show that if dF/dh is ever zero, the zero value is given by the value (or values) of h such that at the point. P say,

on the curve of which such value is the abscissa, the angle between the tangent at P to the curve and the radius from the origin to P is bisected by the parallel through P to the axis of the abscissae.

10. Find the components of attraction of an ellipsoid of uniform density at an internal point.

An oblate spheroid whose bounding surface is given by

$$x^2 + y^2 + z^2(1 - \epsilon^2) = a^2$$

consists of matter of uniform density attracting according to the law of the inverse square; find the attraction at any point on its surface. If θ is the angle between the normal at a point P on the surface and the z -axis, show that when $\cos^2 \theta = 1/3$, the attraction of the spheroid on a particle at P is equal to that of a homogeneous sphere of the same density and mass as the spheroid, provided powers of ϵ above the second may be neglected.

11. Show that in an isotropic right circular hollow cylinder under given external and internal pressures the circumferential traction (or "hoop-stress") T and the radial traction R are connected at distance r from the axis by the equation

$$r \frac{dR}{dr} + R = T.$$

From the stress-strain relations find the radial strain in the walls of the cylinder. If there is zero internal pressure, E the Young's modulus, n the rigidity modulus, and a the internal radius, prove from your result that the radial strain is an extension inside the cylinder of radius

$$a \sqrt{\frac{1}{6n + 2E}}.$$

and a contraction outside this cylinder.

12. Find the equations of equilibrium of a thin wire which is held fast at one end while to the other end are applied a given force and a given couple.

If the wire is held in the form of a helix determine the force and the couple.

SECOND PAPER—THREE HOURS.

(NOTE.—Do not attempt more than EIGHT questions.)

1. Prove that a thin shell of matter of uniform density, bounded by two similar and similarly situated ellipsoidal surfaces, produces uniform potential at all points inside its inner surface. Show that the external equipotential surfaces of such a shell are ellipsoids confocal with the shell.

2. A charge of electricity is in equilibrium on the surface of an ellipsoidal conductor (of semi-axes a, β, γ), at a great distance from all other conductors. Prove that the outward force just outside the conductor at the extremity of the axis of z is $Q/a\beta$. Hence show that the potential V of the conductor is given by

$$V = -\frac{1}{2}Q \int_0^{\infty} \frac{d\lambda}{\lambda \{ (a^2 + \lambda)(\beta^2 + \lambda)(\gamma^2 + \lambda) \}^{1/2}}.$$

3. Prove that if a circular disk, which may be regarded as a limiting case of an oblate ellipsoid of revolution, is charged to potential unity, the potential due to the disk at a point on the axis of revolution at which an angle ω is subtended by a radius of the disk is $2\omega/\pi$. What is the surface density at distance x from the centre of such a disk?

4. Prove (explaining the notation) that the kinetic energy of an irrotationally moving fluid, within a simply connected space enclosed by a surface S , is given by

$$T = -\frac{1}{2}\rho \int \phi \frac{d\phi}{dn} dS.$$

Prove Lord Kelvin's theorem that in such a motion as this the kinetic energy is less than that of any other motion consistent with the same normal motion at the boundary.

Sketch shortly the mode of treatment of irrotational motion in a multiply connected space. What addition to the statement of the theorem just stated is necessary in this case?

5. A solid sphere of radius a is in uniform motion in an unbounded incompressible fluid which is at rest at infinity. Find the potential and stream functions, and the kinetic energy, and give a graphical representation of the motion. Explain fully a magnetic analogue of the motion.

Supposing the sphere to be surrounded by a rigid concentric spherical partition, find the kinetic energy of the motion of the fluid.

6. Show that according to the equilibrium theory of the tides the lunar tide-producing forces may be regarded as due to two equal bodies (moon and anti-moon) placed at equal distances D on opposite sides of the earth. Hence, taking the earth as an unyielding spherical body wholly surrounded by a stratum of water, find the equipotential surface with which in this theory the surface of the water may be taken as coincident. What actions are neglected in obtaining the first approximation you give?

If the earth were composed of a liquid interior separated from the surface waters by a more or less flexible crust, how would you expect the tidal rise and fall to differ from what they are?

7. Forced waves are produced in a straight uniform canal by the action of a time-periodic and space-periodic applied force.

Show that according as the velocity of the propagation of the force is greater or less than the velocity of a free wave, the forced wave has the phase of the force or the opposite phase. Hence deduce the conclusion of the canal theory of the tides that the tides would all be direct in high latitudes and inverted (that is of opposite phase to the tide producing force) in lower latitudes if the depth of the water were less than a certain critical depth. How can this depth be found?

8. Prove the equation of the variable flow of heat in a body specified by cylindrical coordinates.

Hence (or otherwise) prove the following results for the steady flow of heat, symmetrical about a straight line in an infinite homogeneous solid:

Temperature at any point distant r from the axis of symmetry

$$\frac{(\Gamma_a \log b - \Gamma_b \log a) - (\Gamma_a - \Gamma_b) \log r}{\log b - \log a},$$

where Γ_a is the temperature of the cylindrical isothermal of radius a and similarly for Γ_b .

Quantity of heat crossing any isothermal per unit length in time t

$$\frac{2\pi k t (\Gamma_a - \Gamma_b)}{\log b - \log a}.$$

9. Verify Kelvin's solution for the temperature at any point of an infinite homogeneous solid in which a quantity of heat has been suddenly generated at a point, viz.,

$$\frac{A e^{-r^2/4\kappa t}}{8\pi^{3/2}(\kappa t)^{3/2}}.$$

Hence show that for an instantaneous uniform line-source the solution is

$$\frac{a}{4\pi\kappa t} e^{-r^2/4\kappa t},$$

where r is now the distance of the point considered from the line.

Deduce the physical interpretation of A and a .

10. A uniform semi-infinite bar whose surface is impervious to heat has its end temperature given by $V \sin \frac{2\pi t}{T}$, where V is a constant and T is the period of the cycle. Find the value of α in order that

$$V e^{-\alpha x} \sin \left(\frac{2\pi t}{T} - \alpha x \right)$$

may be a solution for the temperature of a point distant x from the end.

Show also that the velocity of propagation of the waves of temperature along the bar is $2\sqrt{\pi\kappa/T}$, where κ is the diffusivity of the substance.

Describe briefly an experimental method for determining conductivity based upon the above analysis.

THIRD PAPER—Two Hours.

(NOTE.—Candidates ought not to attempt more than EIGHT questions.)

1. Define entropy. Show that for reversible operations of a working substance the entropy of the substance depends only on the terminal states.

A body is surrounded by a medium of unalterable temperature θ_0 and is cooled to that temperature by the performance of work by a perfect engine at the expense of its heat. Prove that the whole work done is

$$E - E_0 - \theta_0(\phi - \phi_0),$$

where E , E_0 denote the internal energies, ϕ , ϕ_0 the entropies, in the initial and final states respectively.

2. A system of any bodies isolated from without, is imagined divided up into parts the thermal capacity of each of which is the same. Show

that the utmost useful work obtainable from the system, by perfect engines working between its parts, is equal to the product of the thermal capacity of the whole system by the excess of the arithmetical mean of the temperatures of the parts of the system over their geometrical mean.

3. Write a short account of the theory of thermodynamic potential exhibiting the values of the thermodynamic potential of a substance under (1) constant volume, (2) constant potential. Denoting the latter potentials by F_v , F_p prove the relations

$$\frac{\partial F_v}{\partial t} = -\phi, \quad \frac{\partial F_v}{\partial v} = -p, \quad \frac{\partial F_p}{\partial t} = -\phi, \quad \frac{\partial F_p}{\partial p} = v.$$

Deduce any results as to the stability of a system at once derivable from the properties of a thermodynamic potential. Give an application in detail.

4. By means of the thermodynamic potential, or otherwise, discuss the thermodynamic theory of a voltaic cell, stating clearly any assumptions made as to the action of the cell.

5. Two waves of periods T_1 , T_2 ($T_2 > T_1$) and velocities v_1 , v_2 , are super-imposed. Show that the result is a group of waves with period $T = T_1 T_2 / (T_2 - T_1)$, and velocity of propagation $(T_2 - T_1) v_1 v_2 / (T_2 v_2 - T_1 v_1)$. Find what these become when $v_2 = v_1 + dv_1$, $T_2 = T_1 + dT_1$, where dv_1 , dT_1 are small, and apply the result to the explanation of the fact that the revolving mirror method (which measures the group-velocity) gave a velocity of light in bisulphide of carbon very distinctly greater than that corresponding to the index of refraction.

6. Give an account of the formation of interference rings in a Newton's ring apparatus. Describe and explain the effect of substituting a prism and lens for the plate and lens in the Newton arrangement.

Light is reflected from the perfectly plane and parallel faces of a film and received by the eye or a telescope focussed for parallel light. Interference curves which are concentric circles are seen. Explain how they arise, and how this observation affords a test of parallelism of glass plates.

7. Write a short account of the action of a diffraction grating, and show how to calculate its resolving power.

Contrast the resolving power of a grating and a prism.

8. Describe Rowland's arrangement of a concave reflection grating and give the theory of the arrangement explaining its advantages.

9. Distinguish between wave-velocity and ray velocity in a crystal. Describe (and, if you can, obtain from theory) the form of the wave surface in a biaxial crystal. Explain how conical refraction occurs.

How was the existence of conical refraction demonstrated experimentally?

10. Define an electric image, and show how to apply the method of electric images to finding the distribution on two infinite uninsulated plane conductors intersecting at right angles due to a point charge in the angle between them.

Explain the method of electric inversion. Invert the solution just obtained.

11. Two current elements of lengths ds_1, ds_2 are at distance r apart, and are inclined at angles θ_1, θ_2 to the line joining their centres, and at an angle ϵ to one another. The expression

$$\mu\gamma_1\gamma_2\left(\frac{\cos \epsilon}{r} + \frac{1}{2} \frac{d^2r}{ds_1 ds_2}\right) ds_1 ds_2$$

has been given for the mutual energy of the two elements. Show that the expression may also be written in the form

$$\mu\gamma_1\gamma_2(\cos \epsilon - \frac{1}{2} \sin \theta_1 \sin \theta_2 \cos \eta) ds_1 ds_2 / r$$

where η is the angle between the plane of r and ds_1 and the plane of r and ds_2 . Assuming the expression given, find the effect of the second term for two conductors of finite length AA', BB' , and any form. Also deduce the electrokinetic energy and the mutual inductance for two complete closed circuits.

12. Assuming that a point-charge p moving with velocity v is equivalent to a current element, show that the equations of motion of an ion moving in a plane at right angles to an impressed magnetic field are

$$\ddot{x} + \kappa \dot{y} + c^2 x = 0, \quad \ddot{y} - \kappa \dot{x} + c^2 y = 0$$

and give the value of κ .

Supposing the motion simple harmonic in a definite period, show that two periods are obtained, viz., $2\pi/(c \pm \frac{1}{2}\kappa)$. How have the ratio e/m of the charge on an ion to its effective mass, and the value of e been measured?

13. A vibration of frequency n is rendered intermittent in frequency m by the interposition of an obstacle, so that it can be represented by the expression

$$(1 + \cos 2\pi mt) \cos 2\pi nt.$$

Show that the intermittent vibration is equivalent to *three* simple vibrations of definite frequencies, which find.

Apply this to the explanation of the two sounds, one above, the other below the pitch of a fork, which are produced when the sound of the latter is intercepted by a perforated revolving screen.

14. Assuming the differential equation for the small transverse vibrations of a stretched elastic string, show that the solution in the most general case is

$$\sum_1^{\infty} \sin \frac{m\pi x}{l} \left[A_m \cos \frac{2m\pi t}{T} + \frac{T}{2m\pi} B_m \sin \frac{2m\pi t}{T} \right],$$

where

$$A_m = \frac{2}{l} \int_0^l f(x) \sin \frac{m\pi x}{l},$$

$$B_m = \frac{2}{l} \int_0^l \phi(x) \sin \frac{m\pi x}{l},$$

$f(x)$ and $\phi(x)$ being the initial distributions of displacement and velocity respectively.

Hence show that in general the string will never be all at rest at the same time, and find the relations that must exist between the two sets of coefficients A_m and B_m in order that the string should be at some instant at rest in all its parts.

*D.—GROUP OF ENGLISH (LANGUAGE, LITERATURE,
AND BRITISH HISTORY).*

FIRST PAPER—THREE HOURS.

OLD ENGLISH.

I. Translate :

(a) Ðā gemunde ic hū sio æ was ærest ón Ebreiscgeðiode funden, and eft, ðā hie Crēacas geliornodon, ðā wendon hie hie on hiora āgen geðiode ealle, and ēac ealle oðre bēc. Qnd eft Lædenware swæ same, siððan hie hie geliornodon, hie hie wendon ealla ðurh wise wealhstodas ón hiora āgen geðiode. Qnd ēac ealla oðra Cristena ðioda sumne dæl hiora ón hiora āgen geðiode wendon. For ðy mē ðyncð bētre, gif iow swæ ðyncð, ðæt wē ēac suma bēc, ðā ðe niedbeðearfosta sien eallum monnum tō wiotonne, ðæt wē ðā ón ðæt geðiode wenden ðe wē ealle gecnāwan mægen, and gē dón swā wē swiðe ēaðe magon mid Godes fultume, gif wē ðā stilnesse habbað, ðætte eall sio giogud ðe nu is ón Angelcynne friora monna, ðāra ðe ðā spēda hæbben ðæt hie ðæm befeolan mægen, sien tō liornunga oðfæste, ðā hwile ðe hie tō nānre oðerre note ne mægen, oð ðone first ðe hie wel cunnen Ænglisc gewrit ārædan : lære món siððan furður ón Lædengeðiode ðā ðe món furðor lēaran wille, and tō hīerran hāde dón wille.

(b) Nis ēac nān wundor, þeah us mislimpe, for ðām wē witan ful georne þæt nū fela gēara men nā ne rohton for oft hwæt hý worhtan wordes oððe dæde ; ac wearð þes þeodscype, swā hit þincan mæg, swyðe forsyngod þurh mænigfealde synna and þurh fela misdæda, þurh morðdæda and ðurh mándæda, þurh gitsunga and ðurh gifernessa, þurh stala and þurh strūdunga, þurh man/sylena and ðurh hādene unsida, þurh swicdōmas and ðurh searocræftas, þurh lahbrycas and ðurh æswicas, þurh mægræsas and ðurh man/slihtas, þurh hādbrycas and ðurh æwbrycas, þurh sibblegeru and ðurh mistlice forligru. And ēac syndan wīde, swā wē ār cwædan, þurh āðbrycas and ðurh wēd/brycas and ðurh mistlice lēasunga forloren and forlogen mā þonne scolde, and frēolsbricas and fæstenbricas wīde geworhte oft and gelōme. And ēac hēr syn on earde [Godes wiðersacan] apostatan ābroðene, and cyrichatan heþole, and

lēodhatan grimme calles tō manege, and oferhogan wide god-
cundra rihtlaga and cristenra þēawa, and hōcorwyrde dysige
æghwær on þēode oftost on ðā þing þe Godes bodan bēodað,
and swyðost on þā þing þe geornost tō Godes lage gebyriað
mid rihte.

- (c) Hē fēara sum beforan gēngde
wīsa mēna wong sceawian,
oþ þæt hē fēringa fyrgebēamas
ofer hārne stān leonian funde,
wēynlēasne wudu; wæter under stōd
drēorig and gedrēfed. Denum eallum wæs,
winum Scyldinga, weorce on mōde,
tō gebolianne ðegne mōnegum,
oncýð corla gehwæm, syðþan Escheres
on þām holmlife hafelan mēttan.
Flōd blōde wēol (folc tō sǣgon)
hātan heolfre. Horn stundum sōg
fūslic f[yrd]lēoð. Fēþa eal gesæt;
gesāwon ðā æfter wætere wýrmcynnes fela,
sellice sǣdracan sund cunnian,
swylce on næsshleoðum nīcras licgean,
ðā on undernmæl oft bewitigað
sorhfulne sið on segrāde,
wýrmas and wildēor; hīe on weg hrunon
bitere and gebolgne, bearhtm ongēaton,
gūðhorn galan. Sumne Gēata lēod
of flānbogan fēores getwæfde,
þðgewinnes, þæt him on aldre stōd
hērestræl hearda; hē on holme wæs
sundes þe sēnra ðe hinc swylt fornam.

- (d) Hī ðā hrēowigmōde
wurpon hyra wēpen of dūne, gewitan him wērigferhðe
on flēam sceacan. Him mōn feaht on lāst,
māgenācen folc, oð se mēsta dæl
þæs hēriges læg lilde gesæged
on ðām sigewonge, sweordum gehēawen,
wulfum tō willan, and ēac wælgifrum
fuglum tō frōfre. Flugon ðā ðe lyfdon
lādra lind. Him on lāste fōr
swēot Ebrēa sigore geweorðod,

dōme gedȳrsod ; him fēng *Dryhten* God
fægre on fultum, *Frēa* ælmihtig.
Hī ðā *frōmlīce* *fāgum* swyrdum
hæleð *higerōfe* *herpað* worhton
þurh lāðra gemong, *līnde* hēowon,
sildburh *scæron* ; *scēotend* wæron
gūðe gegremede, *guman* Ebrēisce,
þegnas on ðā *tīd* *þearle* gelyste
gārgewinnes.

- (e) Ic wæs *wēpenwiga* : nū mec *wlone* þeceð,
geong *hagostealdmōn* *golde* and *sylfore*,
wōum *wirbogum*. *Hwīlum* *weras* *cyssað* ;
hwīlum ic tō *hilde* *hlēoþre* *bonne*
wilgehlēþan ; *hwīlum* *wycg* *byreþ*
mec ofer *meorce*, *hwīlum* *merehengest*
fereð ofer *flōdas* *frætwum* *beorhtne* ;
hwīlum *mægða* *sum* *minne* *gefylleð*
bōsm *bēaghroden* ; *hwīlum* ic *bordum* *sceal*
heard *hēafodlēas* *behlýþed* *licgan*,
hwīlum *hōngige* *hyrstum* *frætwed*
wlitig on *wāge* *þær* *weras* *drincað* ;
frēolic *fyrdsceorp* *hwīlum* *folcwigan*
wicge *wegað* : *þonne* ic *wīnde* *sceal*
sincfāg *swelgan* of *sumes* *bōsme*.
Hwīlum ic [to] *gereordum* *rīncas* *laðige*
wlonce tō *wīne*, *hwīlum* *wrāðum* *sceal*
stefne *minre* *forstolen* *hreddan*,
flýman *fēondsceaþan*. *Frige* *hwæt* ic *hātte* !

What is the answer to this riddle ?

2. Give the meaning of, and write etymological notes on, the following words—*crismlicing*, *wegnest*, *inwitfeng*, *efstan*, *lærig*, *giongorscipe*, *ambihtscealc*, *frumgār*, *frēfran*, *spyrian*.

3. Give a brief outline of the tale of Beowulf, indicating the connection of the Fight with Grendel's mother with the rest of the poem.

4. Write a critical estimate of *The Battle of Maldon*, *Judith*, and *The Wanderer*, as representing different types of Old English poetry.

UNPREPARED TRANSLATION.

5. Translate :

ƿū lēofusta brōþur, swiþe frēondlice ƿnd swiþe fremsumlice
 þū mē tældesþ ƿnd mid ēaþmōde ingeþence þū mē ciddesþ, for
 þon ic min māþ ƿnd wolde flēon þā byrþenne þære hirdelecan
 giemenne. Þāra byrþenna hefignesne, eall þæt ic his geman,
 ic āwrite on þisse anweardan bēc, þý læs hī hwæm leohte
 þyncen tō underfōnne; ƿnd ic ēac lære þæt hira nān þāra nē
 wilnie þe hine unwærlice begā; ƿnd se þe hī unwærlice ƿnd
 unryhtlice gewilnige, ondræde hē þæt hē hī æfre underfēnge.
 Nū ic wilnige þætte þeos spræc stigge on þæt ingeþenc þæs
 leorneres, swā swā on sume hlædre, stæpmælum nēar ƿnd nēar,
 oþ þæt hīo fæstlice gestonde on þæm solore þæs mōdes þe hī
 leornige. ƿnd for þý ic hī todæle on fēower; ān is þāra dæla,
 hū hē on þone folgoþ becume; oþer, hū hē þær on libbe;
 þrida is, hū hē þær on lære; fēorþa is, hū hē his āgene
 unþēawas ongietan wille ƿnd hira gedæf bīon, þý læs hē for
 þý underfēnge his ēaþmōdnesse forlæte, oþþe eft his lif sīe
 ungelic his þēnunga, oþþe hē tō þriste ƿnd tō stiþ sīe for þý
 underfēnge his lārēowdōmes.

PROLOGUE TO THE PASTORAL CARE.

SECOND PAPER—THREE HOURS.

MIDDLE ENGLISH.

1. Translate :

(a) Ich biheolt te Martyrs. *ant* hare unimete murhðe þe
 þoleden her pinen. *ant* deað for ure lauerd. *ant* lihtliche talden
 to alles cunnes neowcins. *ant* eorðliche tintreohen azeines þe
 blisse þat godd in hare heorte schawede ham to cumene.
Efter ham ich biheolt þe cunfessurs hird þe liueden igod lif.
ant haliche deiden. þe schineð as doð steorren iþe eche blissen.
ant seoð godd in his wlite þat haueð alle teares iwipet of hare
 ehnen. Ich iseh þat schene. *ant* þat brihte ferreden of þe eadi
 meidnes ilikest towart engles. *ant* feolohlukest wið ham blissin
ant gleadien. þe libbinde iflesche ouergað flesches lahe *ant*
 ouercumeð cunde þe leadeð heouenlich lif in eorðe as ha
 wunieð hare murhðe. *ant* hare blisse. þe feierlec of hare wlite.
 þe swetnesse of hare song; ne mei na tunge tellen. Alle ha

singeð þe þer beoð. Ah hare song ne mahe nane buten heo singen. Se swote smul ham folheð hwider se ha wendeð. þat me mahte libben aa bi þe swotnesse. hwam se heo bisecheð fore: is sikerliche iborhen. for aȝein hare bisocnen: godd him seolf ariseð þat alle þe oðre halhen sittende ihereð.

- (b) Grim solde sone al his corn,
 Shep wit wolle, net wit horn,
 Hors, and swin [and gate] wit berd,
 The gees, the hennes of the yerd;
 Al he solde, that ouct doucte,
 That he eure selle moucte,
 And al he to the peni drou:
 Hise ship he greythede wel inow,
 He dede it tere, an[d] ful wel pike,
 That it ne doutede sond ne krike;
 Ther-inne dide a ful god mast,
 Stronge kables, and ful fast.
 Ores god, an[d] ful god seyl,
 Ther-inne wantede nouct a nayl,
 That euere he sholde ther-inne do:
 Hwan he hauedet greythede so,
 Hauelok the yunge he dide ther-inne,
 Him and his wif, hise sones thrinne,
 And hise two doutres, that faire wore,
 And sone dede he leyn in an ore,
 And drou him to the heye se,
 Ther he mict alther-best[e] fle.

- (c) Þat holi man hadde gret wonder · þat heo was, & þere
 He sat longe & biþoȝte him · longe hou hit were.
 He biþoȝte him ho hit was · he droȝ forþ his tonge,
 & leide in þe hote fur · & spac faire longe,
 Forte þe tonge was al afure · & siþþe, stille ynouȝ,
 Þe deuел he hente bi þe nose · & wel faste drouȝ;
 He tuengde & schok hire bi þe nose · þat þe fur out-
 blaste;
 Þe deuел wrickeð her & þer · & he huld euere faste.
 He ȝal & hupte & drouȝ aȝe · & makede ȝrislich bere,
 He nolde for al his biȝete · þat he hadde icome þere.
 Mid his tonge he snytte hire nose · & tuengde hire sore,
 For hit was wiþ-inne þe nyȝte · he ne miȝte iseo nomore.

þe schrewe was glad & bliþe ynouȝ · þo he was out of
his honde,
He fleȝ & gradde bi þe lifte · þat me hurde in-to al þe
londe :
‘ Out ! what haþ þe calewe ido · what haþ þe calewe ido !’
In þe contrai me hurde wide · hou þe schrewe gradde so.
As god þe schrewe hadde ibeo · atom, ysnyt his nose,
He ne hiȝede no more þiderward · to hele him of þe
pose.

(d) Þer ne is naȝt on þyef : ac uele. ac to eche uirtue : ech
vice wayteþ. Þaȝles heȝlyche by þe þyeue : is onderstonde þe
dyeuel. a-ye huam and his kachereles þe ilke zelue uader /
þaȝes yef he ne were naȝt onlosti : his hous mid greate strengþe
wolde loky. Þe uader of þe house / ate uerste guoinge in : he
zette sleȝþe / to by doreward. þet y-knauþ huet is to uorlete :
and huet ys to wynny. huet uor to bessette out of þe house.
huet uor to onderuonge into þe house. Nixt þan : ha zette
strengþe. þet þe vyendes / þet sleȝþe zent to zygge / to keste
out : strengþe wyþdroȝe. þet his uoule lostes wyþ-droȝe : and
wyþ-zede. Riȝtnesse uorzoþe ssel zitte amydde þet echen his
oȝen yefþ. Hueruore : huyche time þe þyef is comynde / me
not. ac eche tyme me ssel drede. Þise zuo y-diȝt : naȝt longe
to þe wakynde þe slep of zenne benymþ. Vor al þet lyf is to
waky. Zome messagyers sleȝþe ssel lete in. þet zome þinges
moȝe telle / þet me may a-waki myde.

(e) Now riden þis folk · & walken on fote
to seche þat seint · in selcouþe londis,
Bote þer were fewe men so wys · þat couþe þe wei þider,
Bote bustelyng forþ as bestes · ouer valeyes & hulles,
for while þei wente here ower wille · þei wente alle amys.
Til hit was late & longe · þat þei a leod metten,
Apparayled as a Palmere · In pilgrimes wedes.
He bar a bordun I-bounde · wiþ a brod lyste,
In A weþe-bondes wyse · I-wriþen aboute.
A Bagge and a Bolle · he bar bi his syde ;
An hundred of ampolles · on his hat seeten,
Signes of Synay · and Schelles of Galys ;
Moni Cros on his cloke · and keizes of Rome.
And þe venicle bi-fore · for men schulde him knowe,
And seo be his signes · whom he souht hedde.

(f) Thik drumly scuggis dirknit so þe hewyne;
 Dym skyis oft furtʰ warpit feirfull lewyne,
 Flaggis of fyir, and mony felloun flawe,
 Scharp soppis of sleit and of þe snyband snawe.
 The dowy dichis war all donk and wait,
 The law waille flodderit all wythʰ spait,
 The plane stretis and every hie way
 Full of fluschis, doubbis, myre, and clay.
 Laggerit leys wallowit farnys schewe,
 Broune muris kithit þair wysnit mossy hewe,
 Bank, bra, and boddum blanschit wolx and bair;
 For gurll wyddir growyt bestis haire;
 The wynd maid wayfe þe reid weyd one þe dyk;
 Bedovin in donkis deyp was ewery syk;
 Our craggis and þe front of rochis seyre
 Hang greit isch schoklis lang as ony speire;
 The ground stude barrand, wedderit, dosk, and gray;
 Herbis, flouris, and girsis wallowit away;
 Woddis, forestis, wythʰ nakyt bewis blowt,
 Stud strypt of þair weyd in ewery hout.

2. Point out and explain the verbal forms which help you to determine the dialect of the first five of the above passages. What do you know of the different versions of the text of *Piers Plowman*?

3. Give an account of the favourite themes, and of the different forms, of the Middle English Metrical Romances. What light does Chaucer throw on the repute in which some of these romances were held in the Fourteenth Century?

4. Illustrate the nature and extent of the French element in Middle Scots.

THIRD PAPER—THREE HOURS.

GENERAL ENGLISH LITERATURE.

1. Give a concise account of the sonnet-literature, other than Shakespeare's, of the Elizabethan period.

2. What are Ben Jonson's claims to distinction as a literary critic?

3. Write a short history, and describe the main characteristics, of English lyric poetry during the first half of the seventeenth century.

4. Give some account of the main phases of English tragedy from the Restoration to the days of Addison.
5. Estimate the services of Dryden and Johnson to English prose.
6. Trace the influence (a) of Milton's minor poems, (b) of *Paradise Lost* upon the poetry of the eighteenth century.
7. Compare Addison, Goldsmith, and Lamb as humourists.
8. Give a summary view of the appreciation of Shakespeare from the time of Pope to the death of Johnson.
9. In what relation do Coleridge and Wordsworth stand to the Romantic revival of the eighteenth century?
10. Give an account of, and compare, any three of the best known English pastoral elegies.
11. Compare Macaulay and Carlyle as historians.

FOURTH PAPER—THREE HOURS.

CHAUCER, ETC.

1. Arrange Chaucer's chief works according to the different literary influences noticeable in them. Discuss the propriety of classifying his poems, under the heads, respectively, of Translation, Imitation, and Invention.
2. Which of the *Canterbury Tales* are known, or are supposed, to have been composed before the Prologue? What grounds are there for supposing The Knight's Tale as we have it to be a revision of an earlier work?
3. Illustrate from the Prologue to the *Canterbury Tales* Chaucer's powers of satire.
4. Give a brief account of any *one* of the following poems: *The House of Fame*; *The Parlement of Foules*; *The Nonne Prestes Tale*.
5. "The *Canterbury Tales* are the full harvest of the art of the trouvère." Discuss this statement.
6. Write a brief estimate of *The Vision of Piers Plowman*, (a) as a satire, (b) as an allegorical poem.
7. Give a concise account of the poetical work of *either* Henryson or Dunbar.
8. Give some account of the literary sources of the *Morte D'Arthur*. Write a short appreciation of Malory's prose style.
9. Describe any Morality Play with which you may be acquainted, and explain how the Morality was developed from the Miracle Play.

FIFTH PAPER—THREE HOURS.

SHAKESPEARE.

I.

1. What elements of the old popular religious drama are retained in Elizabethan tragedy and comedy?
2. Give a brief account of the earliest examples of regular English comedy.
3. Estimate the extent of Marlowe's influence upon Shakespeare's earlier work. Which of Shakespeare's plays are supposed to have been written in collaboration with Marlowe?
4. Give some account of the literary sources of the plots of Shakespeare's comedies.
5. Illustrate the growth of Shakespeare's genius by a comparison of the characters of Richard III. and Macbeth.
6. How far may Shakespeare's English historical plays be regarded as forming a connected group?
7. What resemblances do you find in the characters of Brutus and of Hamlet?
8. In what way do the structure of the play, and the succession of incidents in the action, support the theory of Hamlet's "failure"?
9. "Jealousy does not strike me as the point in his (Othello's) passion." (Coleridge.) Discuss.

SIXTH PAPER—THREE HOURS.

SHAKESPEARE.

II.

1. To what extent was the character of the Elizabethan drama determined by the circumstances of the time?
2. Describe an Elizabethan theatre.
3. Illustrate from his plays and his sonnets Shakespeare's attitude towards the literary affectations of his time.
4. Discuss the character of the Fool in *King Lear*.
5. To what periods in Shakespeare's life would you, on grounds purely of style and treatment, assign the following plays: *Richard II.*, *As You Like It*, *The Tempest*?
6. "The lyrical element is found in every fibre, vein, and tissue of the Elizabethan drama." Illustrate this from Shakespeare's plays.
7. Summarise the present position of the controversy respecting the interpretation of Shakespeare's sonnets.
8. Compare the Roman plays of Shakespeare and Ben Jonson.
9. What features of classical comedy are retained in the comedies of Ben Jonson?

E.—GROUP OF MODERN LANGUAGES.

FRENCH LANGUAGE AND LITERATURE.

FIRST PAPER—THREE HOURS.

1. Translate into French :

- (a) Break, break, break,
 On thy cold grey stones, O Sea !
 And I would that my tongue could utter
 The thoughts that arise in me.
 O well for the fisherman's boy,
 That he shouts with his sister at play !
 O well for the sailor lad,
 That he sings in his boat on the bay !
 And the stately ships go on
 To their haven under the hill ;
 But O for the touch of a vanish'd hand,
 And the sound of a voice that is still !
 Break, break, break
 At the foot of thy crags, O Sea !
 But the tender grace of a day that is dead
 Will never come back to me.

TENNYSON.

(b) 'Is the liking for outside ornaments,—for pictures, or statues, or furniture, or architecture, a moral quality?' Yes, most surely, if a rightly set liking. Taste for *any* pictures or statues is not a moral quality, but taste for good ones is. Only here again we have to define the word 'good.' I don't mean by 'good,' clever—or learned—or difficult in the doing. Take a picture by Teniers, of sots quarrelling over their dice : it is an entirely clever picture ; so clever that nothing in its kind has ever been done equal to it ; but it is also an entirely base and evil picture. It is an expression of delight in the prolonged contemplation of a vile thing, and delight in that is an 'unmannered' or 'immoral' quality. It is 'bad taste' in the profoundest sense—it is the taste of the devils. On the other hand, a picture of Titian's, or a Greek statue, or a Greek coin, or a Turner landscape, expresses delight in the perpetual contemplation of a good and perfect thing. That is an entirely moral quality—it is the taste of the angels. And all delight in fine art, and all love of it, resolve themselves into simple love of that which deserves love. That deserving is the quality which we call 'loveliness' ; and it is not an indifferent nor optional thing whether we love this or that ; but it is just the vital function of all our being. What we *like* determines what we *are*, and is the sign of what we are : and to teach taste is inevitably to form character.

RUSKIN, *The Crown of Wild Olive*.

SECOND PAPER—THREE HOURS.

1. Traduire en français moderne le passage suivant de la *Chanson de Roland* :

Halt sont li pui e tenebros e grant,
 Li val parfont e les aives coranz ;
 Sonent cil graisle e deriedre e devant
 E tuit rachatent encontre l'olifant.
 Li emperedre chevalche iriedement,
 E li Franceis coroços e dolent.
 N'i at celui ne plort e nes dement,
 E priënt Dieu que guarisset Rodlant
 Jusque il vieignent al champ comunelment :
 Ensemble o lui i ferront veirement.
 De ço cui chalt ? car ne lor valt neient :
 Demorent trop, n'i puedent estre a tems.

2. A metrical, grammatical, and literary study of the preceding lines.

3. Translate into English :

Tout est grossier chez moi ; il y a faute de polissure et de beauté ; je ne sais faire valoir les choses pour le plus que ce qu'elles valent : ma façon n'aide rien à la matière : voilà pourquoi il me la faut forte, qui ait beaucoup de prix, et qui luise d'elle-même. Quand j'en saisis des populaires et plus gaies, c'est pour me suivre à moi, qui n'aime point une sagesse cérémonieuse et triste, comme fait le monde, et pour m'égayer, non pour égayer mon style qui les veut plutôt graves et sévères : au moins si je dois nommer style un parler informe et sans règle, un jargon populaire et un procédé sans définition, sans partition, sans conclusion, trouble, à la façon de celui d'Amafanius et de Rabirius. Je ne sais ni plaire, ni réjouir, ni chatouiller : le meilleur conte se sèche entre mes mains et se ternit.

MONTAIGNE, *Essais*, Livre II.

4. A short appreciation of Montaigne's style.

THIRD PAPER—THREE HOURS.

1. Traiter, d'une façon aussi complète que possible, l'un des sujets indiqués ci-dessous.

2. Indiquer les grandes lignes d'une dissertation sur un autre de ces sujets.

N.B. — Les deux sujets choisis par les Candidats doivent appartenir à deux siècles différents.

(a) Que pensez-vous de ces vers d'Alfred de Musset sur Molière ?

“ Cette mâle gaité, si triste et si profonde
 Que lorsqu'on vient d'en rire, ou en devrait pleurer.”

(b) Apprécier la valeur de l'intrigue et du dénoûment de ‘Tartuffe.’

(c) On a dit de la comédie de Molière, tantôt qu'elle est humaine à un degré éminent, tantôt qu'elle est par excellence une œuvre française où se marquent les traits caractéristiques du génie national. Expliquer et discuter ces qualifications.

(d) Indiquer l'importance de la comédie de Marivaux dans l'histoire du théâtre comique en France.

(e) 'Turcaret,' comédie de mœurs.

(f) Apprécier les qualités de l'intrigue dans 'Les Noces de Figaro.'

(g) Montrer l'originalité de *René* de Chateaubriand et l'influence que ce livre a exercée sur le roman en France.

(h) "Je ne dissimulerai pas que les romans, même les plus purs, font du mal; il nous ont trop appris ce qu'il y a de plus secret dans les sentiments."

Expliquer et apprécier la pensée de Madame de Staël dans ce jugement, en faisant allusion aux romans français parus de 1800 à 1820.

(i) Comparer, au point de vue de leur importance dans le développement du genre, la valeur des romans historiques d'Alfred de Vigny et de Mérimée.

(j) L'inspiration dans Alfred de Vigny et dans Lamartine.

(k) La couleur locale dans les premiers recueils poétiques de Victor Hugo.

GERMAN LANGUAGE AND LITERATURE.

FIRST PAPER—THREE HOURS.

I. TRANSLATION.

UNPRESCRIBED PASSAGES.

1. Translate into English :

- (a) Ein Feuerwagen schwebt auf leichten Schwingen
 An mich heran! Ich fühle mich bereit
 Auf neuer Bahn den Aether zu durchdringen
 Zu neuen Sphären reiner Thätigkeit.
 Dies hohe Leben, diese Götterwonne!
 Du, erst noch Wurm, und die verdienst du?
 Ja, kehre nur der holden Erdensonne
 Entschlossen deinen Rücken zu!
 Vermesse dich die Pforten aufzureissen,
 Vor denen jeder gern vorüberschleicht!
 Hier ist es Zeit durch Thaten zu beweisen
 Dass Manneswürde nicht der Gotterhohe weicht.
 Vor jener dunkeln Höhle nicht zu beben,
 In der sich Phantasie zu eigner Qual verdammt,
 Nach jenem Durchgang hinzustreben,
 Um dessen engen Mund die ganze Hölle flammt;
 Zu diesem Schritt sich heiter zu entschliessen,
 Und wär' es mit Gefahr ins Nichts dahin zu fließen!—

Goethe.

(b) Unablässig war er bemüht, die Morgenzahl des Ackerbodens zu vergrössern, neue Stellen für Ansteller zu schaffen. Sümpfe wurden ausgetrocknet, Seen abgezapt, Deiche aufgeworfen. Kanäle wurden

gegraben, Vorschüsse bei Anlagen neuer Fabriken gemacht, Städte und Dörfer auf Antrieb und mit Geldmitteln der Regierung massiver und gesünder wieder aufgebaut; das landschaftliche Creditsystem, die Feuersocietat, die königliche Bank wurden gegründet, überall wurden Volksschulen gestiftet, unterrichtete Leute angezogen, überall Bildung und Ordnung des regierenden Beamtenstandes durch Prüfungen und strenge Controlle gefordert. Es ist Sache des Geschichtsschreibers das aufzuzahlen und zu rühmen, auch einzelne verfehlte Versuche des Königs hervorzuheben, die bei dem Bestreben, Alles selbst zu leiten, nicht ausbleiben konnten.

Freytag.

2. Translate into German :

Both Goethe and his princely master were hostile to the French Revolution, which was everywhere asserting its power, and troubling men's minds in Germany as elsewhere. To uphold the national literature in despite of revolutionary influences, and to retain the public sympathy for it, was a matter of vital interest for Goethe, Schiller, and many like-minded friends. The publication of the *Horen* was meant to serve this purpose. But the gigantic phenomenon of the Revolution also forced itself on Goethe's mind in the light of poetic material for his hand to shape. In the 'Venetian Epigrams' of 1790 he gave bold utterance to his view, addressing both upper and lower classes in terse plain-spoken language. In the 'Conversations of Emigrants,' the new opinions afloat form the central interest of the work. He also planned a novel after the style of Rabelais. Several of his dramas treat directly of the French Revolution.

II. HISTORICAL GRAMMAR.

(Answer SIX of the following questions.)

1. In what respects has the history of Germany affected the language?
2. Shew clearly the position of German to Celtic and Latin on the one hand, and Sanscrit on the other.
3. Point out the chief differences between the first and second sound-shifting.
4. Explain Werner's Law.
5. Give a list of Middle High German adjectives with irregular comparison.
6. What are the chief changes in the consonants between Middle High German and Modern High German.
7. Classify the Germanic Languages.
8. Sketch the historical evolution of modern German, and point out the philological features which are peculiar to each period.

SECOND PAPER—THREE HOURS.

I.

1. Translate into modern German :

(a) Dó diu vreise zegienc
und ez ze wetere gevienc,

wâr ich gewesen vûr wâr
 bî dem brunnen zehen jâr,
 ich begîzze in nimer mê :
 ich hetez baz gelâzen ê.
 die vogel kômen widere :
 ez wart von ir gevidere
 diu linde anderstunt bedaht :
 si huoben aber ir sîezen braht
 und sunge verre baz dan ê.
 mirn wart dâ vor nie sô wê,
 desn wâr nû gar vergezzen.
 alsus het ich besezzen
 daz ander pardise.
 die selben vrôude ich prîse
 vûr alle die ich ie gesach.
 jâ wânde ich vrôude ân ungemach
 unangestlichen immer hân :
 seht, dô troue mich min wân.

Parse the verbs in the above passage.

- (b) Ezn möchte nimmer dehein wîp
 gelegen an ir selber lip
 von clage selhe swære,
 der niht Ernest wære.
 ez erzéichten ir gebærde
 ir herzen beswærde
 an dem libe und an der stimme.
 von ir jâmers grimme
 sô viel si dicke in unmaht :
 der lichte tac wart ir ein naht.
 sô si wider ûf gesach
 und weder gehôrte noch ensprach,
 sone sparten ir hende
 daz hâr noch daz gebende.

Iwein.

[ALTERNATIVE PIECES.]

- (a) Unser leben und unser jugent
 ist ein nebel unde ein stoup,
 unser stæte bibent als ein loup.
 er ist ein vil verschaffen gouch
 der gerne in sich vazzt den rouch,
 ez si wîp oder man,
 der sich des niht versinnen kan
 und dirre werlte volgende ist.
 wan uns ist über den fûlen mist
 der pfeller hie gespreitet :
 swen nû der blic verleitet,
 der ist zuo der helle geborn
 unde enhât niht mê verlorn
 wan beidiu sêle unde lip.

- (b) "du enmaht es niht für bringen
als dû uns hie hâst verjehen.
dû hâst des tôdes niht gesehen.
swenn ez dir kumet ûf die frist
daz des dehein rât ist,
dû enmüezest sterben,
und möhtest duz erwerben,
dû lebetest gerner dannoch :
wan dun kœme nie in leider loch.
dâ von tuo zuo dînen munt :
und wirstû für dise stunt
der rede iemer mære lût,
ez gât dir ûf dîne hât."
- (c) Wan dû sêhe wol hie vor
daz hôh offen stuont min tor
nâch werltlicher wûnne :
ezn hete in sînem künne
sinen willen niemen baz dan ich ;
und was daz doch unmügelich,
wan ich enhete niht gar.
dô nam ich sîn vil kleine war
der mir daz selbe wunschleben
von sinen gnâden hete gegeben.
daz herze mir dô alsô stuont
als alle werlttôren tuont,
den daz saget ir muot
daz si êre unde guot
âne got mûgen hân.
sus troug ouch mich min tumber wân.

Der arme Heinrich.

Parse the verbs in (a) and (b).

2. Translate :

Des antwurte Sivrit, der kréftige man :
"müet iuch daz, her Hagene, daz ich gesprochen hân,
sô sol ich lâzen kiesen daz die hende min
wellent vil gewaldec hie zen Burgonden sîn."

"Ir sult si ledechlichen hinnen lâzen varn :
und daz die recken edele mære wol bewarn
vîentlîchez riten her in iuwer lant,
des lât in geben sicherheit hie der beider herren hant."
"Des râtes wil ich volgen." dâ mite si giengen dan.
den sinen vîanden wart daz kunt getân,
ir goldes gerte niemen, daz si dâ bûten ê.
dâ heime ir lieben vriwenden was nâch den hermüeden wê.

Das Nibelungenlied.

II.

Write an essay in German on one of the following subjects :

1. Die literarische Thatigkeit der mittelhochdeutschen Periode.
2. Wirkung des Auslandes auf die deutsche Literatur.

III.

1. Account for the decay of German literature during the seventeenth century.

2. Who was *Philip von Zesen*, and how did he make himself remarkable?

3. Point out the merits of the Swiss critics, Bodmer and Breitinger, in giving a new direction to literature.

4. Write an account of the literary career of either Voss or Bürger.

5. Give an outline of the chief work of Opitz.

6. Sketch Lessing's development as a dramatist.

THIRD PAPER—THREE HOURS.

(Answer FIVE of the following questions.)

1. Welches sind die Verdienste Karls des Grossen um die deutsche Sprache und Literatur?

2. Schildern Sie die Lyrik der mittelhochdeutschen Zeit in ihrem Anfang und ihrer Entwicklung.

3. Erzählen Sie kurz den Inhalt von *Iwein*.

4. Was ist die Stellung von Sebastian Brants *Narrenschiff* in der deutschen Literatur?

5. Geben Sie eine Skizze über Hans Sachs und seine Dichtungen.

6. Welche Dichter der ersten schlesischen Schule kennen Sie?

7. Die Entstehungsgeschichte des Göttinger Hainbundes.

8. Schildern Sie Lessings Leben.

9. Charakterisieren Sie Herder und seine Verdienste um die deutsche Literatur.

10. Was wissen Sie von Goethes und Schillers Jugendwerken?

III.—FOR DEGREE OF B.Sc.

A.—IN PURE SCIENCE.

FIRST EXAMINATION.

MATHEMATICS—See pp. 562—565.

NATURAL PHILOSOPHY—See pp. 566—569.

CHEMISTRY—See p. 651.

BOTANY—See pp. 649, 650.

ZOOLOGY—See p. 650.

FINAL EXAMINATION.

MATHEMATICS—See pp. 580—585.

NATURAL PHILOSOPHY—See pp. 585—591.

ASTRONOMY.

FIRST PAPER—ONE HOUR AND A HALF.

(One of each number must be attempted first.)

1. Draw the celestial sphere for latitude 30° , sidereal time 18h.; enter the position of a star whose azimuth is 90° and zenith distance 20° . Estimate its hour-angle, right ascension, declination, longitude and latitude. Enter the position of the sun if the date be December 21.

2a. How is the right ascension of a star determined?

2b. Draw the celestial sphere (without horizon and zenith) containing ecliptic and equator at time t_0 and the positions of two stars whose right ascensions and declinations are respectively

$$\alpha = 6\text{h.}, \delta = +23^\circ, \text{ and } \alpha = 18\text{h.}, \delta = +23^\circ.$$

Enter the position of the pole at time $t_0 + 12,500$ years and give the right ascensions and declinations of both stars for this epoch. For each epoch draw a diagram of the celestial sphere for a place of latitude 60° at sidereal time 18h., giving the positions of both stars.

3a. Show with the aid of diagrams that the hour-angle of a star at Greenwich equals that at the place of observation plus the longitude of the place on the earth. In the case of the moon, what point has to be substituted so that the same relation may hold good?

3b. Why is the meridian zenith distance of the moon at First Quarter large in September and October?

4a. Derive the relation between Greenwich mean time and local sidereal time.

4b. The *Nautical Almanac* gives the Greenwich mean time of transit of the First Point of Aries. Represent this quantity in a diagram and say what connection exists between its daily change and the motion of the Astronomical Mean Sun.

5a. Let an image of an extended object be formed in the focal plane of a lens. Prove that the light falling on a circle of 1" diameter of the image is independent of the distance of the object from the lens. Apply the theorem to a planet.

5b. Why should observations of zenith distances be made near the meridian for the determination of the latitude?

6a. Prove the theorem which is utilised in the sextant.

6b. By what kind of observations is the polar axis of an equatorial placed in the direction of the pole of the heavens?

SECOND PAPER—ONE HOUR AND A HALF.

(Nos. ONE and TWO are compulsory questions.)

1. On the local celestial sphere enter the position of an object at finite distance and deduce the geocentric position on the same sphere. Derive the angular distance of the two positions.

2. Find the amount of the angular displacement of a star due to aberration, and the plane in which it takes place.

3. Draw a diagram of the celestial sphere containing for each of the two epochs t and $t+1$ year, the mean vernal point and the equator and its pole. Indicate how the yearly precession in right-ascension and declination can be derived.

4. What corrections have to be applied to a star place to reduce it from the mean equinox at time t_0 to the apparent place at time t_1 . (No formulae.)

5. The apparent right-ascension and declination of a planet has been observed at time t , and it is to be compared with the theoretical place as given by an ephemeris, which refers to the mean equinox at the beginning of the year. What corrections would you apply to effect the comparison?

6. On the celestial sphere for latitude 60° , sidereal time 12h., enter the heliocentric position of a distant planet, $\alpha = 6h.$, $\delta = +23^\circ$. Let the date be April 21 and the angle sun-planet-earth be 1° on that day. Enter on their proper great circles (1) the geocentric place of the planet, (2) the local place, (3) the place as changed by yearly aberration, (4) the place as changed by daily aberration.

7. Draw the ecliptic and mean equator at two epochs t_0 and t , and also the true equator at t . Enter, for time t , the sun, the dynamical mean sun, the astronomical mean sun, and the position of a place on the earth's equator. Mark all the quantities which increase proportional to time and prove that mean time is strictly uniform if the earth rotates at a uniform velocity.

8. How can the mass of a planet be found?

9. On the celestial sphere described round Saturn draw the ecliptic and enter the pole of the plane of the Rings defined by longitude and latitude, λr and βr . The geocentric longitude and latitude of Saturn being λ and β , enter the position of the Earth and determine the angle between the line of sight and the pole of the Ring. What is the minor axis of the apparent ellipse presented by the circular ring?

THIRD PAPER—ONE HOUR AND A HALF.

(One question of each number must be attempted first.)

1. (a) The orbit of a double star is seen projected on a plane at right angles to the line of sight. Derive the eccentricity of the true orbit from quantities which can be observed.

1. (b) Assuming Cassini's laws of rotation of the moon, explain, with the aid of a diagram, libration and say on what quantities librations in longitude and latitude depend.

2. In the theory of occultations of a star a certain system of co-ordinates is introduced. Define it and point out its advantages.

3. (a) Integrate $r^2 dv = c dt$ where $r = p/(1 + e \cos v)$.

3. (b) Represent the true, eccentric and mean anomalies in a diagram and say how the position in the orbit can be graphically found for a given mean anomaly.

4. (a) Indicate how a formula of interpolation can be derived, which contains the function and the differences standing in the schedule above and below a horizontal line.

4. (b) A table of the function $\int_0^\phi \frac{d\phi}{\sqrt{1 - e^2 \sin^2 \phi}}$ is wanted at intervals ω from $\phi = 0$ to $\phi = i\omega$. Transform the integral so that the rules of Mechanical Quadrature can be applied and point out what quantities have to be calculated.

5. (a) $\delta(V \sin \psi) = U dt$ where V is the velocity at time t , ψ the angle enclosed between the radius vector and V , and U the perturbative acceleration in the plane V, r at right angles to r . Derive the perturbation δp of the parameter of the instantaneous elliptic orbit

$$(r^2 du = p \sqrt{1 + m} \sqrt{p} dt).$$

How is the acceleration due to the sun taken into account?

5. (b) Explain how the perturbations of the elliptic elements can be found by means of Mechanical Quadrature.

FOURTH PAPER—ONE HOUR AND A HALF.

1. $U = c(x^2 + y^2)^{-\frac{1}{2}}$, $T = \frac{1}{2}m(\dot{x}^2 + \dot{y}^2)$. Introduce new co-ordinates q_1 and q_2 defined by $x = q_2 \cos q_1$, $y = q_2 \sin q_1$ and find Hamilton's partial differential equation for S . Give the reasons why $\frac{\partial S}{\partial q_1}$ and $\frac{\partial S}{\partial t}$ may be put equal to constants and find the integrals of the canonic equations. Do not carry out the quadratures.

2. Let
$$\frac{\partial S}{\partial t} + H(q, p) = 0, \text{ and } p_k = \frac{\partial S}{\partial q_k},$$

be satisfied by $S = S(t, q_1 \dots q_2, a_1 \dots a_2)$.

Prove that $\frac{\partial S}{\partial a_k}(t, q) = \beta_k$, $k = 1$ to i , α and β being constants, are the integrals of the canonic equations

$$\frac{dq_k}{dt} = \frac{\partial H(q, p)}{\partial p_k}, \quad \frac{dp_k}{dt} = -\frac{\partial H(q, p)}{\partial q_k}.$$

3. The integrals of the canonic equations

$$\frac{dq_k}{dt} = \frac{\partial H(q, p)}{\partial p_k}, \quad \frac{dp_k}{dt} = -\frac{\partial H(q, p)}{\partial q_k}$$

are $q_k = q_k(t, a_1 \dots a_i, \beta_1 \dots \beta_i)$, $p_k = p_k(t, a_1 \dots a_i, \beta_1 \dots \beta_i)$, a_k and β_k being canonic constants. Show that the solution of

$$\frac{dq_k}{dt} = \frac{\partial H(q, p) - R(t, q, p)}{\partial p_k}, \quad \frac{dp_k}{dt} = -\frac{\partial H(q, p) - R(t, q, p)}{\partial q_k}$$

is reduced to that of the canonic equations

$$\frac{da_k}{dt} = \frac{\partial R(t, \alpha, \beta)}{\partial \beta_k}, \quad \frac{d\beta_k}{dt} = -\frac{\partial R(t, \alpha, \beta)}{\partial \alpha_k}.$$

Utilise the following relations

$$\frac{\partial q_i}{\partial a_k} = -\frac{\partial \beta_k}{\partial p_i}, \quad \frac{\partial q_j}{\partial \beta_k} = \frac{\partial a_k}{\partial p_j}, \quad \frac{\partial p_j}{\partial a_k} = \frac{\partial \beta_k}{\partial q_i}, \quad \frac{\partial p_i}{\partial \beta_k} = -\frac{\partial a_k}{\partial q_j}$$

in which q and p are expressed by t, α, β , and α and β by t, q, p .

4. Find the first two integrals of $A \frac{dp}{dt} + (C - B)r\dot{q} = 0$, etc., and show that for $B = A$ the axis of rotation of the earth describes a cone round the principal axis of inertia Z , in 305 days. $(C - A)/C = 0.00328$.

5. The differential equations of rotation for a system of co-ordinates fixed in space, origin in centre of inertia, are

$$\frac{d\mathbf{f}}{dt} = L, \text{ etc., } \mathbf{f} = \int \left(\eta \frac{d\zeta}{dt} - \zeta \frac{d\eta}{dt} \right) dm.$$

Find the equations for a spheroid, whose XY plane lies in the equator of the spheroid, while the X axis moves independently of the body.

(The direction cosines a_1 for $-X$, a_2 for $-Y$, etc., are connected by the relations $a_1 = \beta_2\gamma_3 - \gamma_2\beta_3$, etc.; $\beta_1 d\gamma_1 - \gamma_1 d\beta_1 = (a_2 r + a_3 q) dt$, etc.; pqr being the velocities round XYZ axes which bring these axes into their successive positions.)

SCIENTIFIC CALCULATIONS—TWO WEEKS.

Calculate an ephemeris of the minor planet No. 322 from 1904, June 4 to July 6.

PRACTICAL WORK.

1. Observe the transits of stars with the Transit Instrument, and determine the errors of the instrument and the correction of the sidereal clock.

2. Observe altitudes of the sun near the meridian with the sextant, and calculate the geographical latitude.

CHEMISTRY.

FIRST PAPER—THREE HOURS.

(Six questions to be answered.)

1. State the Phase Rule and explain it by reference to the case of water.

2. Give an account of the experiments of Hittorf on the migration of ions.

3. State briefly the more important chemical properties of lead. Mention some other elements which occur in the same group in the periodic system and compare their properties with those of lead.

4. Write equations showing what happens when the following substances are (*a*) heated alone, (*b*) heated with concentrated sulphuric acid: ammonium dichromate, ammonium acetate, calcium oxalate, ammonium iodide, silver nitrate, potassium ferrocyanide.

5. What different methods are available for the estimation of copper?

6. Explain how the following compounds of mercury are prepared and mention their more important characteristics: mercuric cyanide, mercuric iodide, mercurous chloride, mercuric sulphide.

7. Describe the chemical changes that take place in the Bessemer steel process. How do these differ in the English and German methods of working?

8. Show how you would calculate the heating power of a compound of carbon hydrogen and oxygen which it is proposed to employ for fuel. What is the temperature theoretically attainable when pure carbon is burned in air?

SECOND PAPER—THREE HOURS.

(Six questions to be answered.)

1. Explain what is meant by the Law of Constant Heat-Summation. Suggest a method for determining the heat of formation of nitrous oxide and calculate the heat of formation of formic acid from the following data: $(\text{H}_2, \text{O}) = 68360$, $(\text{C}, \text{O}_2) = 96960$, $(\text{CH}_2\text{O}_2, \text{O}) = 65900$.

2. Write the formula of camphor and give some account of the work which has led to the establishment of this formula.

3. Explain how the following halogen compounds are prepared and compare their properties: ethyl iodide, phenyl bromide, phenyl iodide, benzyl chloride.

4. By what reactions can the aldehydic character of glucose be demonstrated? How can *d*-glucose be converted into *d*-fructose?

5. Show how malonic acid can be prepared from acetic acid and give examples of some important syntheses which can be carried out with the help of ethyl malonate.

6. What steps would be necessary in order to obtain urea from hydrocyanic acid, lactic acid from alcohol, *p*-toluidine from benzene?

7. State shortly the principal methods of determining atomic weights. Illustrate by a few selected examples the directions in which these have been most useful.

PHYSIOLOGY—THREE HOURS.

Candidates are required to answer any two of the questions set (see p. 652) for the M.B. examination—of which question 4 must be one—and, in addition, the following :

I. FOR CANDIDATES PROFESSING KNOWLEDGE OF THE SPECIAL SENSES.

1. With regard to the *temperature sense*, state what is known as to its location, the paths of transmission to the brain, and in what respect it may be said to differ from the sense of touch and the sensation of pain.

2. What do you understand by the terms :

(a) *Homonymous and heteronymous images* ;

(b) *Positive after-images* ;

(c) *Hemianopsia* ;

(d) *Red-green blindness* ?

How may each condition be demonstrated ?

3. Describe the mechanism of the *ossicles of the ear*, and explain the advantage of the arrangement found in man over the action of a single bone.

II. FOR CANDIDATES PROFESSING KNOWLEDGE OF DIGESTION.

1. Give an account of the origin, physical properties, chemical constitution, and physiological action of *saliva*.

2. Give an account of Pawlow's experiments on the *secretion of gastric juice* and state the inferences to be drawn from the facts observed.

3. Trace from the beginning the origin and mode of formation of the *etheral sulphates* found in the urine.
 4. How would you prepare
 - (a) Glycocholic acid ;
 - (b) Uric acid ;
 - (c) Cholestrine ?
-

PRACTICAL PHYSIOLOGY—SIX HOURS.

I. HISTOLOGY.

1. Cut, stain, and mount two preparations from the paraffin block supplied. Write a description of the specimen.
2. Demonstrate, by stained specimens, multipolar nerve cells from the cord.
3. Identify the 10 mounted specimens given to you.

II. PHYSIOLOGICAL CHEMISTRY.

1. Identify, in the fluid A supplied, three substances of physiological importance.
2. Estimate quantitatively the amount of glucose in the fluid B.
3. Describe the method by which you would estimate the amount of fat in milk.
4. Demonstrate the spectrum of methaemoglobin.

III. EXPERIMENTAL PHYSIOLOGY.

Perform the experiment noted on the card placed before you. Ask for any apparatus you require.

GEOLOGY.

(Six questions to be answered. One question must be taken from EACH section. The other THREE may be taken from any part of the paper.)

SECTION A. MINERALOGY AND PETROLOGY.

1. What characters would you look for in identifying minerals in thin section under the microscope?
2. Describe fully the group of the Felspars.
3. Describe the rocks: Gneiss, Phonolite, Orbicular Diorite, Graphitic Granite.

SECTION B. GENERAL GEOLOGY.

1. Give an account of the chief types of lakes, classifying them according to their mode of origin.
2. What is Darwin's Theory of Coral Islands? State any objections to it that have been advanced in recent years.
3. Describe the excavating action of rivers.

SECTION C. STATIGRAPHICAL GEOLOGY.

1. Describe the "Great Ice Age."
2. Write a brief essay on "Palaeontology and Evolution."

ZOOLOGY.

FIRST PAPER—THREE HOURS.

(Only six questions to be attempted.)

1. Give a comparative account of the arterial arches in Fishes, Amphibia, and a Bird or Mammal.
2. Explain and illustrate the expressions monaulic, diaulic, triaulic, ultra-dextral, sinistral.
3. Describe the arrangement and external structure of the ambulacra in the principal groups of Echinoderms.
4. Sketch the main variations in the structure and relations of the Hemispheres in the chief groups of the Vertebrata.
5. What is a "secondary sexual character"? Give examples to illustrate your answer, and state any theories which have been suggested to explain the occurrence of these characters.
6. Discuss the evolution of the Amnion of the Vertebrata.
7. Describe the external structure of any Arachnid. Give a short comparative account of the external characters of Arachnids.
8. Describe the relations of the coelomic organs in Siphonopoda.
9. Describe some of the modifications by which various Molluscs are adapted to a pelagic life.

SECOND PAPER—THREE HOURS.

(Only six questions to be attempted.)

1. Mention some of the more interesting facts with regard to the following animals: *Nucula*, *Dentalium*, *Argonauta*, *Asthenosoma*, *Synapta*, *Polypterus*.
2. Write a short comparative account of the visual organs of the Mollusca.
3. Discuss the question of the extent to which Palaeontological evidence is confirmatory of the theory of Evolution.
4. Describe any recent advances with which you may be acquainted in our knowledge of Protozoan life histories.
5. Describe the pallial complex of the Opisthobranchiata. What evidence can you bring forward to show that the apparent bilateral symmetry found in some Opisthobranchs is a secondary phenomenon?
6. Discuss the Principle of "Change of Function."

7. What are the distinctive characters of the several groups of recent Reptilia?

8. What is meant by the expression Holonephros?

Write a comparative sketch of the holonephros in the main subdivisions of the Vertebrata.

9. Describe the development of the main venous trunks in a Bird or a Mammal.

BOTANY.

FIRST PAPER—THREE HOURS.

1. Give an account of the formation of the "Fruit" in the Red Sea-weeds.

2. Write a comparative account of the development of the Embryo in the Gymnosperms.

3. Discuss the question of the mutual relationship of the Dicotyledons and Monocotyledons.

4. What is meant by chemiotaxis? What is its biological importance?

5. Give some account of the Sphenophylleae, and discuss their affinities.

SECOND PAPER—THREE HOURS.

1. Give an account of the vegetation of a high peaty Moorland, and indicate how the Plants are adapted to such situations.

2. Give some account of the anomalous modes of secondary thickening met with in climbing Plants. To what extent do you regard the anomalies as related to the climbing habit?

3. What is meant by the Respiratory Coefficient, and what are the circumstances of its variation?

4. Give an account of sexuality in the Fungi.

5. Discuss the relation of the cell-wall to the protoplasm.

B.—IN ENGINEERING.

FIRST EXAMINATION.

MATHEMATICS.

FIRST PAPER—THREE HOURS.

(NOTE.—Candidates may obtain FULL marks by doing correctly about TWO-THIRDS of this paper.)

1. The sides AB , BC , CD , DA of a quadrilateral $ABCD$ are denoted by a , b , c , d respectively; find an expression for the area of the quadrilateral in terms of the sides and the sum of two opposite angles.

If the diagonals AC , BD are denoted by x , y respectively, and if the angle between AC and BD is denoted by θ , show that $2xy \cos \theta$ is equal to the difference between $a^2 + c^2$ and $b^2 + d^2$.

2. Find the sum of n terms of the series

$$\sin A + \sin (A + B) + \sin (A + 2B) + \sin (A + 3B) + \dots$$

In the series

$$a_1 \sin x + a_2 \sin 2x + a_3 \sin 3x + \dots + a_{5n} \sin 5nx,$$

x is replaced in turn by θ , $\theta + \frac{2\pi}{5}$, $\theta + \frac{4\pi}{5}$, $\theta + \frac{6\pi}{5}$, $\theta + \frac{8\pi}{5}$; show that the sum of the five series thus obtained is

$$5(a_5 \sin 5\theta + a_{10} \sin 10\theta + a_{15} \sin 15\theta + \dots + a_{5n} \sin 5n\theta).$$

3. Show that the equation

$$x^2 - xy - 6y^2 + 2x - y + 1 = 0$$

represents two straight lines, and find the angle between them.

Find the locus of the middle point of the intercept made by the coordinate axes on a straight line which passes through a fixed point (h, k) . Sketch roughly the locus.

4. Investigate the condition that the straight line $y = mx + c$ should touch the parabola $y^2 = 4ax$; assuming m to be given, find the co-ordinates of the point of contact.

Show that the tangent at any point of a parabola meets the directrix and the latus rectum produced at points equally distant from the focus.

5. Define an ellipse, and from your definition derive its equation.

SY is the perpendicular from the focus on the tangent at P to the ellipse; SR is drawn parallel to the tangent YP and meets the line CY , joining Y to the centre C of the ellipse at R . Show that $SYPR$ is a rectangle.

6. Find the locus of the middle points of a system of parallel chords of the hyperbola $x^2/a^2 - y^2/b^2 = 1$.

A series of circles is drawn such that each circle intercepts on the x -axis a constant length $2a$, and on the y -axis a constant length $2b$; show that the locus of the centres of the circles is a rectangular hyperbola.

7. From the definition of a differential coefficient find the differential coefficient of

$$(i) x^4, \quad (ii) \frac{1}{x^3}, \quad (iii) \frac{1}{\sqrt{x}}.$$

$$\text{If } y = \frac{2x^3 - 3x^2 + 9}{x^2 - 2x + 1}, \text{ find } \frac{dy}{dx}.$$

Draw the graph of the equation; state the turning points of the graph and the points where it crosses the x -axis.

8. If x is less than $\frac{\pi}{2}$, show that

$$\cos x < \frac{\sin x}{x} < 1,$$

and apply the inequalities to find the derivative of

$$\cos(ax+b).$$

Differentiate

$$x \sin^{-1} x + \log \sqrt{1-x^2},$$

and show that, if $y^2 = \sec 2x$,

$$\frac{d^2y}{dx^2} + y = 3y^5.$$

9. Find an expression for the radius of curvature of a curve given by the equation $y=f(x)$.

Show that the ordinate of any point P on the curve

$$y = \frac{a}{2} (e^{\frac{x}{a}} + e^{-\frac{x}{a}})$$

is a mean proportional between the radius of curvature at P and the radius of curvature at the lowest point of the curve.

10. Integrate the following functions of x :

$$(i) \frac{x+3}{\sqrt{3+2x-x^2}}; \quad (ii) \frac{1}{17-15 \cos x};$$

and find the value of the definite integrals:

$$(ii) \int_0^{\pi} e^{-2x} \cos 3x dx; \quad (iv) \int_{-1}^1 \frac{dx}{(5-3x)\sqrt{1-x^2}}.$$

11. Show that

$$\int \sin^n x dx = -\frac{\sin^{n-1} x \cos x}{n} + \frac{n-1}{n} \int \sin^{n-2} x dx,$$

and deduce the value of $\int_0^{\frac{\pi}{2}} \sin^8 x dx$.

Sketch the curve (a a positive quantity)

$$a^2(a-x)y^2 = x^5,$$

and find the area between the curve and its asymptote.

12. If s is an arc of the curve $y=f(x)$, find an expression for $\frac{ds}{dx}$.

The ellipse $x^2/a^2 + y^2/b^2 = 1$ makes a complete revolution about its major axis; find the area of the surface generated by the revolution of the ellipse.

13. The area of the section S of a solid made by a plane perpendicular to the x -axis is a function of x only, where x is the distance of the plane of section from the origin of coordinates; show that the volume of the solid comprised between two planes perpendicular to the x -axis and distant a, b respectively from the origin is

$$\int_a^b S dx.$$

Find the volume of the solid of question 12.

SECOND PAPER—See pp. 564, 565.

NATURAL PHILOSOPHY.

FIRST PAPER—THREE HOURS.

(NOTE.—*Candidates are requested not to attempt more than NINE of the following questions.*)

1. A particle moves in a plane curve: investigate expressions for the tangential and normal components of the acceleration.

A particle is moving in a path whose equation is

$$y = \frac{a}{2} \left(e^{x/a} + e^{-x/a} \right).$$

Show that, if ϕ is the inclination of the tangent at any point P of the path to the axis of x , and s the length of the path from the point $(0, a)$ to P , $\tan \phi$ is equal to s/a ; then prove that the velocity v of the particle is Ce^{ϕ} , where C is a constant.

2. A sphere of matter of radius a and uniform density ρ has a narrow hole bored through it along a diameter. A particle is placed at rest at one end of the perforation, and is then left to move under the action of the attraction of the sphere, which follows the Newtonian law. Show that the motion is simple harmonic and find its period.

If the particle be retarded by friction of amount proportional to the velocity, find the period.

3. State and prove the theorem that connects the rate of change of the moment of momentum of a system of particles about any axis with the rate of change of the moment of momentum about a parallel axis through the centroid of the system.

A wheel of mass m , radius a and radius of gyration $a/\sqrt{2}$, is projected along a rough horizontal plane with an initial velocity of translation V and angular velocity Ω round an axis through its centre perpendicular to its plane; assuming that at the beginning of the motion the point of contact of the wheel with the plane slips in the direction of V , find when pure rolling begins and indicate the subsequent motion.

4. Establish the equation of energy for a system of moving particles, pointing out clearly what forces are to be included in the expressions for the work done.

Investigate the theory of Atwood's machine when the inertia of the pulley is taken into account; find the acceleration of the masses and the stretching force of the string.

5. A fly-wheel of mass M is suspended, with its plane horizontal, by 3 light vertical cords symmetrically attached to the rim of the wheel. The wheel is given a small rotation about its centre and allowed to oscillate under gravity; τ is the period of a small oscillation. A uniform circular disc of mass M' and radius a is then placed symmetrically upon the wheel and the system is allowed to oscillate as before. If τ' is the new period for small oscillations, derive an expression for determining the moment of inertia of the fly-wheel, and state what precautions must be taken in order that an accurate result may be obtained.

6. Show that any system of forces acting on a rigid body may be reduced to a single wrench.

Find the condition that two wrenches should reduce to a single resultant, the shortest distance between the axes of the wrenches being a , and the inclination of the axes α .

7. Explain shortly the Principle of Virtual Work as applied in Statics, and the method this principle gives for considering the stability of equilibrium of a rigid body.

A sphere of radius a , loaded so that the centre of gravity is at a distance b from the centre of figure, is placed on a rough plane inclined at an angle α to the horizontal. Show that there are two positions of equilibrium in which the distances of the point of contact from the centre of gravity are

$$a \cos \alpha - \sqrt{(b^2 - a^2 \sin^2 \alpha)} \quad \text{and} \quad a \cos \alpha + \sqrt{(b^2 - a^2 \sin^2 \alpha)}$$

respectively. State the nature of the equilibrium in the two cases.

8. A chain, whose ends are in the same horizontal, hangs in a vertical plane and supports a load; the total load supported by the chain, including its own weight, is uniform per unit of length of the span. Investigate the form in which the chain hangs, and find the stretching force in the chain at its lowest point and at the ends.

If the total load is w pounds per foot run of the span, calculate the stretching force at the lowest point if the span is 250 feet and the dip (at the lowest point) 20 feet. Compare this force with the force at the lowest point of a catenary having the same span and dip, the weight of the chain forming the catenary being w pounds per foot.

9. Give the equations connecting stresses and strains for an isotropic substance, adducing any considerations you can in justification of your assumption of such equations. Deduce from your equations the expression for Young's modulus in terms of the bulk modulus and the rigidity modulus.

An isotropic spherical shell, of internal radius a and external radius b , is subjected to pressure by an enclosed gas; if w is the radial displacement at a distance r from the centre of the sphere, show that

$$\frac{d}{dr} \left(\frac{dw}{dr} + \frac{2w}{r} \right) = 0.$$

Find the radial and tangential displacements at distance r , assuming the external pressure to be zero.

10. A uniform beam rests horizontally with ends free on supports at its extremities and is bent by its own weight. Find the droop at the middle point.

A single support is placed under the middle point and raised until the beam is just clear of the end supports; how far has the middle point been raised?

11. One of the parallel sides, AB , of a trapezium $ABCD$ is in the surface of a liquid; if $AB = a$, $CD = b$, and if the perpendicular distance between AB and CD is h , show that the centre of pressure lies on the line joining the mid points of AB and CD , and that its distance from AB is

$$\frac{a + 3b}{a + 2b} \frac{h}{2}.$$

A lock-gate is 12 feet wide, and has water on one side 9 feet deep, and on the other 6 feet deep, in each case measured from the lower edge of the gate. Find the resultant thrust on the gate and its point of application.

12. Find the condition of equilibrium of a body floating freely in water.

A homogeneous prism, whose section is an isosceles triangle of base a and height h , floats in water; determine the relation between a , h and the specific gravity s that the prism may float with the face which contains the base a horizontal.

13. What is a *reversible* thermodynamic engine? Show, stating the assumption involved, that all reversible engines are equally efficient.

Define the ratio of two temperatures by means of a thermodynamic engine performing a Carnot cycle between those two temperatures. Show how by means of the interval between two easily reproducible temperatures of reference the definition of the scale can be completed.

14. Give some account of the results of Andrews' investigation of the isothermals of carbonic acid.

Taking a cycle consisting of the straight parts of two neighbouring isothermal curves for carbonic acid for temperatures below the critical temperature, and the portions of the curves between these isothermals at which the straight parts begin and end, prove that the equation

$$\frac{dL}{d\theta} + c - h = \frac{L}{\theta}$$

holds, where L is the latent heat of the vapour at temperature θ , c the specific heat of the liquid and h the specific heat of the saturated vapour.

Assuming this equation for steam, prove by Regnault's expression for the total heat of steam that h is negative. What does this mean?

SECOND PAPER—See pp. 568, 569.

CHEMISTRY—See p. 651.

FINAL EXAMINATION.

ENGINEERING.

FIRST PAPER—TWO HOURS AND A HALF.

(Only SEVEN questions may be attempted.)

1. What is clay band ironstone? How is it prepared for the blast furnace? What are the objects of the treatment you describe? Sketch and describe the chief features of a blast furnace for iron smelting.

2. Distinguish between the Acid and the Basic Bessemer Process, stating the conditions under which each is used, the materials employed, and the characteristics of the products.

3. What properties render each of the following materials suitable for the purpose named?—Mild steel for bridge work, as compared with wrought iron; wrought iron for chains in preference to mild steel; grey in preference to white cast-iron for general foundry purposes; manganese bronze for a screw propeller; copper for a locomotive fire box.

4. Account for the fact that members in structures or machines which have an abrupt discontinuity of form are more liable to fracture than others; and discuss the bearing of this upon the relative suitability of wrought iron and mild steel for parts subjected to varying stresses.

5. Describe the successive effects of an increasing pull stress applied to a specimen of wrought iron or mild steel, and illustrate your answer by reference to a stress-strain diagram sketched approximately to scale.

6. Describe the structure of the stem of an oak tree. Compare and contrast the structure of yellow pine, ash, and plane tree with oak, and state one or two uses for which each of these timbers is specially suited.

7. Prove that a perfectly flexible cord running in the manner shown in the accompanying figure will, when it has attained a certain velocity, continue to run in the same form if the pulley *B* is removed (neglecting gravity). Show the connection of the principles involved with the question of the "centrifugal tension" in the rim of a revolving fly-wheel.

8. Make hand sketches, approximately to scale, of the bending moment and shearing force diagrams for the loaded beam shown on the accompanying diagram; explaining how the data for some of the chief points of the diagrams are determined.

9. Show how to determine, for an engine of which the indicator diagrams and all required dimensions are given, the fluctuation of energy with which the flywheel must deal.

10. If T_1 and T_2 be the tensions in the two reaches of a belt, investigate an expression for the limiting value of the ratio of T_1 to T_2 , explaining the assumptions involved. If $T_1 = 2T_2$, find T_1 in the case of a belt transmitting 20 H.P. to a pulley 4 feet in diameter making 250 revs. per minute.

SECOND PAPER—TWO HOURS AND A HALF.

(Only SEVEN questions may be attempted.)

1. Give a brief account of the process of surveying by means of the chain and its accessories only, a field roughly square in outline, but with irregular boundaries; and give a sample of the kind of entries you would make in the field book.

2. Enumerate the temporary and permanent adjustments of a transit theodolite, and explain how, and under what circumstances, each of the temporary adjustments is to be made.

3. State, giving reasons, what method, or methods, of surveying would you consider suitable for each of the following:

- (a) The survey of a large estate.
- (b) The survey of a small farm.
- (c) The survey of a route for a railway through a narrow valley.
- (d) The survey of a mine.

4. Describe with the aid of sketches, the box sextant; prove the principle upon which the arc is graduated, and explain for what purposes it may conveniently be used in surveying. Explain in connection therewith the construction of the optical square.

5. Describe the optical and mechanical construction of a Gravatt's or Dumpy level, and explain the features in regard to which accuracy of workmanship is essential. Describe the process of testing for, and making the permanent adjustments of the instrument.

6. Discuss the influence of atmospheric refraction upon levelling observations, and explain how, and under what circumstances, it is to be taken account of.

7. Explain the reasons for easing off the transition between a straight length and a circular curve on a railway, and show how the necessary calculations are made for a Froude curve, and how the curve may be set out in the field.

8. Explain the Mean Heights, the Mean Areas, and the Prismoidal methods of calculating railway earthworks. Determine by each the volume in cubic yards of a block of railway cutting having a length of 66 ft., end heights 12 ft. and 20 ft., breadth at formation level, 24 ft., side slopes 2 to 1 (the ground being level across the cutting.)

Discuss the relative merits of the three methods.

9. Describe and explain the process of construction of an earth embankment for a reservoir.

10. Describe the process of setting out in the field the "half breadths" for a railway cutting when the ground has an irregular side-long slope.

THIRD PAPER—TWO HOURS AND A HALF.

(*Not more than SEVEN questions are to be attempted.*)

1. State the first and second laws of thermo-dynamics. Give quantitative data regarding the first, explaining how these have been obtained, and discuss the foundations of the second law.

2. Show how the density of dry saturated steam at a given pressure is calculated, and explain the difficulties met with in its direct experimental determination.

3. Describe the construction and explain the principle of action of the Throttling Calorimeter. Show the mode of reducing the results, and explain the assumptions involved in the calculations. What precautions must be taken in sampling steam?

4. State the chief respects in which the operations in an ordinary condensing steam engine differ from those of the Clausius and Rankine cycle, and explain how each difference you refer to affects the efficiency.

5. Illustrate by aid of sketches the influence of each of the following defects on the form of the indicator diagrams of ordinary steam engines:

Steam pipe too small in diameter.

Too early release.

Too great compression.

Insufficient opening of the valve to exhaust.

6. Discuss the chief sources of error in the determination of the indicated horse-power of a steam engine, and describe the precautions to be taken to minimise the errors.

7. Describe the Thomson self-regulating brake for engine testing. Calculate the brake horse-power in an example for which you assume the necessary data.

8. In respect to steam engine governors explain the meaning of isochronism, and illustrate by aid of sketches how the Watt governor has been improved upon in respect thereto. Explain the meaning and some of the chief causes of "hunting."

9. Explain the mode of working of any form of oil engine with which you are acquainted, and show by aid of sketches the chief features of the cylinder, valves, and oil feed arrangement.

10. Describe a compressed air refrigerating machine. If the ratio of compression and expansion (both assumed adiabatic) be 4, the temperature of the cold chamber 15° F., and the temperature of the air as it enters the expansion cylinder 70° F., what will be the temperatures at the end of compression and expansion respectively? and what will be the theoretical coefficient of performance of the machine? Illustrate by a temperature-entropy diagram the ratio of the energy expended to the amount of refrigeration done.

FOURTH PAPER—THREE HOURS.

(Not more than EIGHT questions are to be attempted.)

1. Explain how, from two accurate tests of a specimen, you can determine Young's modulus, the modulus of rigidity, the modulus of bulk elasticity, and Poisson's ratio, for a homogeneous and isotropic material. Give the formulæ you would use in the calculations.

2. For a framed structure of which the complete design is given, explain a method of determining the probable deflection at any point due to a given superadded load. Show a suitable form of table in which to set down the various steps of the work.

3. A chain hangs between two points, 100 feet apart horizontally measured, and at heights of 40 feet and 20 feet respectively above the lowest point of the chain.

Determine the tensions at the points of support, and the minimum tension in the chain, when loaded with 200 lbs. per foot run horizontally measured.

Show how the position of some other points of the curve in which the chain hangs can be determined by a graphical construction when the lowest point has been found.

4. For a floor to carry a total load of 300 lbs. per square foot upon red pine joists of 10 feet span, determine a suitable size and pitch of joists: taking the working stress in tension as being 1000 lbs. per square inch.

5. Investigate an expression for the simple torque equivalent to a combined torque and bending moment in a cylindrical shaft, and show how you would apply it to determine a suitable diameter for a shaft driven by an overhung pulley.

6. Investigate Euler's and Gordon's formulas for the strength of struts, and discuss their applications in practice.

7. Investigate an expression for the stress at any point of a thick cylinder subjected to internal pressure, explaining the assumptions on which your investigation is based. The cast steel cylinder of a hydraulic baling press has a bore of 20 inches, and is subject to a working pressure of 700 lbs. per square inch. Determine a suitable thickness for the cylinder, taking the ultimate tensile strength of the steel at 24 tons per square inch, and assuming a suitable factor of safety.

8. Describe, with the aid of sketches, Thomson's vortex turbine, and explain its advantages over the Fourneyron and Jonval types. Explain the conditions under which a partial admission turbine is preferable to any of these.

9. Explain, by aid of sketches, the causes of the resistance to the flow of water round pipe bends.

10. Distinguish between steady and eddying flow of water in pipes, and state the conditions which determine the nature of the flow.

Distinguish between the two critical velocities for flow in a given pipe, and explain how each may be determined experimentally.

ENGINEERING DRAWING AND DESIGN.

FIRST PAPER—THREE HOURS.

(*Not more than SIX questions are to be attempted.*)

1. In the accompanying figure, the crank AB rotates at a uniform speed about A as an axis, and carries round with it the wheel C . As AB turns through an angle of 90° in one direction, C , turning in the opposite direction, makes two complete revolutions about B as an axis. Trace the locus of the point P during this motion.

2. Show, by the aid of sketches, how you would solve the following problems:

- (a) Draw the projections of three spheres of different diameters when resting on the horizontal plane in contact with one another.
- (b) Draw, from a given point, a line perpendicular to a given oblique plane, and determine its point of intersection with the plane.
- (c) Draw any two oblique planes with their traces all meeting at a point in the ground line, and determine the projections of their common section.

3. A straight bar, AB , $3''$ long, and inclined to the horizontal plane at an angle of 60° , is connected, at its middle point C , to a vertical spindle by means of a horizontal bar perpendicular to AB , and $0.5''$ in length. Draw the profile of the surface generated by the rotation of AB about the spindle as an axis; the spindle being $1\frac{1}{2}''$ from the vertical plane, and C , the middle point of AB , $1\frac{1}{2}''$ above the horizontal plane.

4. Through a given point P , $1''$ from each of the planes of projection, draw a plane making angles of 60° and 45° with the horizontal and vertical planes respectively. Taking P as the centre of gravity of an equilateral triangle ABC , of $1''$ side, and lying in the plane, determine the projections of the triangle when the side AC is inclined at 45° to the horizontal plane.

5. Make an isometric projection of the object shown on the accompanying sheet.

6. Draw the projections of the curve of intersection of the cylinder and cone shown on the accompanying sheet, and also draw a development of the pierced conical surface.

7. The centre of a sphere of $2''$ diameter is $2''$ above the horizontal plane and $1\frac{1}{2}''$ from the vertical plane. Draw the shadow cast by the sphere upon the planes of projection, and the projections of the line of separation on the spherical surface when the projections of the rays of light make angles of 45° with the ground line.

8. Draw a diagram of stresses from the loaded frame shown on the accompanying sheet, and indicate by barbs which of the bars are in push, and which are in pull.

PART I.

1. Give a short account of the effect of repeated and varying stresses on the ultimate strength of steel and iron.

If 7.5 tons per square inch be regarded as a safe working stress for a bar of mild steel subjected to a steady pull, what would be the safe working stress if the bar was subjected to repeated and rapidly varying pull stresses the maximum of which was equal to three times the minimum?

2. With respect to the transmission of power by spur gearing, what are the considerations which have to be taken into account in determining the pitch of the teeth? A spur wheel 4 feet in diameter transmits 100 horse-power at 120 revolutions per minute. Determine a suitable pitch for the teeth assuming the breadth to be three times the pitch.

3. Explain, giving formulae, the different ways in which a single riveted joint may fail; and design a butt-joint having two cover straps and suitable for connecting together two half-inch steel plates.

PART II.

Design, and so far as time permits, make detailed drawings of one of the following:

(a) The shell of a marine boiler (Scotch type) having a mean diameter of 12 ft. 6 ins. and a length between outside plates of 10 ft. 6 ins. suitable for a working (gauge) pressure of 160 lbs. per sq. inch.

(b) The cylinder of a non-condensing steam engine of 20 indicated horse-power:—piston speed 250 ft. per minute, initial pressure, 60 lbs. per sq. in. by gauge, cut off at 0.7 of stroke, stroke one and a half times the diameter.

(c) A French, or Fink roof truss of 60 feet span and 15 feet rise, to carry panel dead loads of 3000 lbs. and panel wind loads (on right side of the truss only) of 4000 lbs., the reaction at the left support being vertical, and the lower chord of the truss horizontal.

GENERAL LABORATORY EXAMINATION.

[THREE questions to be attempted, of which ONE (and ONE only) must be from Group A (Mechanical or Electrical).]

MECHANICAL.—A.

1. Describe the method of carrying out a complete Boiler Trial, dealing specially with the sampling of the steam and the determination of its coefficient of wetness.

2. Describe, with sketches, how you would carry out a test of a steam, gas, or oil engine, in respect to indicated horse-power, brake horse-power and efficiency. Discuss the different sources of error in using the Indicator.

3. Explain how you would carry out on the 100-ton testing machine, a complete tensile test, elastic and breaking, of a mild steel bar, 2" broad $\times \frac{1}{2}$ " thick; and show by sketches how the same machine can be used to determine the crushing strength of a brittle material.

B.

4. Describe an experiment to determine the torsional strength of a round specimen of brass. Discuss the question of the determination of the Modulus of Rigidity of the material of the specimen by the method you describe.

5. Explain, with sketches, how you would find the Calorific value of Coal gas by Junker's Calorimeter. Why is it necessary to keep the flow of water and of gas constant?

6. How would you find the Efficiency and Velocity Ratio of the hoisting gear of a two-ton travelling crane? Sketch a usual form of crane mechanism.

7. Describe, with sketches, a complete test of a Pelton wheel, to determine the efficiency at different heads and velocities of rotation.

8. Describe fully some experiment you have carried out in the laboratory, and discuss the sources of error in the method and probable degree of accuracy of the result.

ELECTRICAL.—A.

1. Describe how you would carry out a complete "Hopkinson" test on two similar direct current dynamos. Illustrate your description with complete sketches of connections. Prove the formulæ you use and criticise the assumptions made.

2. Describe how you would carry out a test of a three-phase alternator with loads of constant power factor ($\cos \phi = 0.5$) and constant line current. How would you deduce the same results by calculation from the magnetic and short circuit characteristics of the machine?

B.

3. Describe some modern form of Potentiometer and its use in the measurement of E.M.F.s. (200 volts to $\frac{1}{2}$ volt) currents and resistances.

4. How would you obtain to within 1 per cent. the resistance of a D.C. dynamo armature at normal temperature, and after running on full load for one hour? How could you deduce from the results the average rise of temperature of the armature windings?

5. Describe in detail any method of separating the various losses in a D.C. motor.

6. Describe how you would perform a complete efficiency test of two similar transformers. Criticise the method and show how, by means of an auxiliary transformer, you can carry out a more accurate test.

7. Describe how a single watt meter may be used for the measurement of power in an unbalanced three-phase circuit. How would you calibrate the watt meter?

ELECTRICAL ENGINEERING.

FIRST PAPER—THREE HOURS.

1. The plates of a two-plate condenser are one metre square and are 0.5 mm. apart. Calculate its capacity in microfarads if the dielectric has a specific inductive capacity of 2.0. What amount of energy in Joules will be stored in the condenser if the plates are at a difference of potential of 1000 volts?

2. Enunciate Kelvin's rule for the most economical current density in cables.

A cable is to be used for 16 hours a day for the transmission of constant power. Calculate the most economical current density if the cost of energy is one penny per k.w. hour and the interest on capital sunk in the cables is 10 per cent. per annum. Density of copper = 8.9. Specific resistance of copper = 1.7×10^{-6} ohm-cm. units. Cost of copper = £200 per ton.

3. A sketch is given you showing the dimensions of a 72 k.w. continuous current dynamo having 6 poles. The armature revolves at 500 revs. per min. and gives 600 amps. at 120 volts. Calculate the ampere turns per pole required to give a useful flux of 4.12×10^6 lines per pole, the leakage factor being 1.21.

4. The armature of the above dynamo is parallel wound. What number of conductors is required on the surface of the armature to give an E.M.F. between the brushes of 120 volts when the useful flux is 4.12×10^6 lines per pole?

The field spools are 22 cm. square in section and the winding space is 16.4 cm. long. Each is wound with 1000 turns of wire having a rectangular section, 2.5×3.5 mm. uncovered, 3.1×4.1 mm. covered. Calculate the resistance of each bobbin. Resistance of a copper wire 1 metre long and 1 (mm.)² in section is 0.017 ohms. energy is 1d. per k.w. hour, and an E.M.F. of 1.56 volt is required to decompose water. Mass of 1 litre of H at N.T.P. = 0.0896 grms.

5. A balloon has a capacity of 500 cubic metres, and has to be inflated with hydrogen gas obtained from the electrolysis of water. Calculate the minimum cost of filling the balloon at N.T.P. if the cost of electrical

6. A coil of n turns revolves N times per second in a magnetic field. If the maximum flux through the coil is ϕ , obtain expressions for the instantaneous, maximum, mean, and effective E.M.F.s induced in the coil.

7. An electric car weighing 20,000 lbs. is driven on the level at 13 miles per hour, by two geared motors connected in parallel when the total frictional distances are equivalent to a horizontal pull of 1600 lbs. wt. The tension of the line is 500 volts, the resistance of each motor is 1.3 ohms, the diameter of the car wheels 33", and the ratio of the motor gear 4.78 to 1. Find the motor speed, torque, current, and back E.M.F.

What would be the car speed if the resistances were increased by that due to a gradient of 1 in 10?

SECOND PAPER—THREE HOURS.

1. Give a detailed description of a method of determining the hysteretic loss in a specimen of sheet iron, being careful to distinguish between eddy current and hysteretic losses.

2. Describe two methods of separating the losses in a direct current dynamo, and discuss the relative advantages of the two methods.

3. Draw a complete clock diagram representing the various fluxes, E.M.F.s and currents which are present in a loaded transformer all in their proper phase relationships. Say what conditions must be fulfilled to reduce the diagram to the simple form given by Kapp.

A transformer having a ratio of transformation of 10 to 1 has 320 primary turns. The primary E.M.F. is 2000 volts, the frequency 50. The total ohmic drop at full load on a circuit of power factor 0.8 is 2 per cent. and the secondary E.M.F. is then 190 volts. Find the leakage flux.

4. A three-phase transmission system has a resistance of 7 ohms and a reactance of 5 ohms per line wire. The E.M.F. between the lines at the receiving end is 5000 volts, the frequency being 50. A synchronous motor at the receiving end of the line, of resistance 0.8 ohms and synchronous reactance 20 ohms per phase winding, has its windings connected in star, and its field excitation is adjusted until the full load current of 50 amperes is in phase with the E.M.F. at the receiving end. What will be the current, E.M.F., power factor, and generator E.M.F. at full load and half load?

5. An alternator of 500 k.w. and 200 volts 50 periods has an armature resistance of 1 ohm, and an equivalent self-induction of 0.16 henry. The mass of the rotating parts of engine and alternator is 10,000 lbs., and the radius of gyration 2 feet. If this alternator, when running light, be suddenly connected in parallel with several other alternators, when slightly out of phase with these, calculate the period of the oscillations which the armature will make.

If this alternator is driven at 300 revs. per min. by a steam engine whose crank effort diagram shows fluctuations of torque amounting to 25 per cent., what will be the velocity fluctuations produced?

6. Draw and describe Heyland's diagram for an asynchronous motor, showing how all the variables are represented by certain lines on the diagram.

7. Write a short description of the mathematical analysis of the various effects which are combined in the term armature reaction of alternators.

8. Describe how to deduce from the no-load characteristic of an alternator the external characteristic for constant power factor and also the short circuit characteristic.

NAVAL ARCHITECTURE.

STABILITY AND ROLLING—THREE HOURS.

(Eight questions only to be answered.)

1. Prove the formula for the moment of the wedges of submersion and emersion for a body which has been inclined through an angle θ . How is this formula applied in the "polar" method of integration in stability?

2. State and prove the relations between ZM , GZ , and the dynamical arm. Show how to construct an isovol from a series of cross curves giving values of $B.R.$

3. Describe two of the following methods for finding the stability of a vessel:

(a) using a planimeter.

(b) „ an integrator.

(c) „ „ integraph.

4. Give sketches of stability curves showing range and max. GZ for three of the following types:

(1) Large battleship.

(2) Low freeboard monitor.

(3) Large Atlantic liner.

(4) Fine high-speed passenger vessel.

(5) Sailing yacht.

Give the metacentric heights for the types you choose, and show the effect on the curves of (a) negative metacentric height, (b) less freeboard, (c) more beam.

5. State and prove the formula giving the relation between the radii of curvature of the curves of buoyancy and flotation.

6. Show that when the tangent to the curve of metacentres is parallel to the tangent at the corresponding point of the curve of vertical centre of buoyancy, the radii of curvature of the curves of buoyancy and flotation are equal.

7. State all the properties you know concerning the isovols, isoclines, and the loci of the cc's of parallel waterplanes.

8. Explain the principle of standardising stability calculations.

The equation to the 20° displacement isovol of a form is

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = .64$$

where $2b$ = greatest breadth and $2a$ = greatest depth of the form. Find the equation to the 80° displacement isovol of the standardised form. The axes are taken through the centre of bulk.

9. Find the co-ordinates of the CB of a vessel with vertical sides, in terms of the BM and angle of heel.

10. Give the equation to unresisted rolling in still water, and from it deduce the formula for the period. What modification in the results will have to be made if the vessel is wall sided?

11. How is the navipendulum constructed so as to represent the true rolling motion of a ship on a regular series of waves?

12. Show how to derive the equation to the curve of extinction. How can it be constructed from the results of rolling experiments? Discuss the effect of water ballast tanks on the rolling motion.

RESISTANCE AND WAVES—THREE HOURS.

(EIGHT questions only to be attempted.)

1. State and prove Bernouilli's theorem. How is this theorem applied to the consideration of the stream line flow round a vessel moving through water?

2. Show how to find an expression for the thickness of the zone of disturbance caused by the friction of the water with the sides of a plane. State the assumptions involved.

3. A model 20 ft. long has been run at varying speeds per min. and the wave-making resistances at each speed determined. The curve thus obtained is approximately $r = .00001 \times v^2$ where r = resistance in lbs., and v = speed in ft./min. Determine from this equation the necessary E.H.P. to overcome the wave-making resistance of a vessel similar in form to the model, but 720 feet long, at a speed of 24 knots.

4. Give figures to show the distribution of the I.H.P. of a screw engine. Describe progressive speed trials. How is the dead load friction of the engine obtained from the speed curve?

5. Find the period of a trochoidal wave. Prove that the pressure is normal to the surface.

6. Prove that the continuity of flow condition is satisfied by a trochoidal wave.

7. Find the energy per foot of a trochoidal wave 200 ft. long \times 10 ft. high.

8. Describe the features of the wave system created by a moving vessel. How does the wave-making resistance sometimes affect the speed curve?

9. Describe the construction of a paddle wheel. How are the floats designed so as to enter the water without shock? Show that the efficiency of a paddle = $\frac{r}{1+r}$. Find a suitable diameter of paddle wheel,

speed of ship = 18 knots, slip = 20%, revs. = 40/minute. If the hull resistance at this speed = 2 tons, find a suitable size of float.

10. Define pitch ratio and slip ratio. Prove the formula for the efficiency of an elemental plane propeller moving in a given direction relatively to the ship.

11. What are "thrust deduction" and "wake factor"? Describe fully how they may be determined experimentally.

12. Give the law of comparison for similar propellers. Describe Froude's method of obtaining from a single efficiency curve and a series of thrust curves for varying pitch ratios a suitable size of propellers for a given set of conditions.

STRENGTH—THREE HOURS.

(EIGHT questions only to be attempted.)

1. Prove that the section of a ship is a curve of still water pressures, and that the submerged area of the section represents the supporting force per foot of length. How is this modified if the vessel is in a trochoidal wave?

2. State and define the standard conditions. State the reasons for assuming standard conditions in strength calculations. If the maximum bending moment in the standard hogging condition is 51,200 ft. tons for a vessel of 4000 tons dispt. and 320 ft. long, what would be the maximum bending moment for a similar vessel 400 ft. long in a similar condition? What is the intensity in inches, or the length of the ordinate on the standardised diagram of this maximum bending moment?

3. What maximum longitudinal stresses are likely to come upon a ship in a seaway? How does her position relatively to the waves affect these stresses? Give figure for maximum tension and maximum compression per square inch for standard conditions of the following types:

- (1) Small cargo vessel, 200 ft.
- (2) Large „ 500 ft.
- (3) Battleship, 400 ft.
- (4) Torpedo boat destroyer.

4. Prove the formula for shearing stress. State how far it strictly applies to a ship's structure when under the action of a shearing force. A beam of uniform cross-section (circle radius 3 in.) is under the action of a shearing force. Find the maximum shearing stress at the section where the shearing force is 60 tons.

5. Calculate the maximum stresses on a rectangular vessel, breadth 20 ft., depth 10 ft., made up of $\frac{1}{2}$ in. plating on top, bottom, and sides, and under the action of a bending moment of 6000 ft. tons, which acts in the plane of a diagonal. Sketch the neutral axis in position.

6. Find the size of stock suitable for the rudder of a vessel of 18 knots maximum speed. Area rudder 90 sq. ft.; c.g. of rudder plane is 2 ft. 6 in. from the axis. What will the diameter have to be with a 3 in. bore?

7. Describe how to obtain the deflection of a ship for a given change in bending moment. Give the formulae.

8. State where and in what manner ships develop structural weaknesses. Show the effect of discontinuities in the structure upon the stresses.

9. Sketch a double-strapped butt joint of shell plates. Strakes 40 in. wide $\frac{1}{2}$ in. thick, frame spacing 24 in. Calculate the ultimate strength of this arrangement, supposing the plate to tear along an outside row of butt rivets, and to shear the rivets in landings.

10. Describe how to construct a trochoidal wave, and how to obtain the buoyancy curve when wave pressures are taken into account.

Show by sketches buoyancy curves for hollow and crest when wave pressures are and are not taken into account.

11. Deduce the equation to the heaving motion, and give the formula for maximum heave on the assumption that the locus of c.g. (statically) is a curve of v . sines. How is the increase on the statical B.M. due to heaving calculated?

12. If a vessel rests entirely on a pair of blocks, find the support afforded by each block, given the vessel's weight curve. In the case of a vessel on docking blocks, with a large overhang unsupported, what assumptions require to be made in order to find the pressure on foremost block? Give the necessary equations.

CALCULATIONS—THREE HOURS.

(EIGHT questions only to be answered.)

1. Draw up a convenient form of table suitable for finding the displacement and vertical centre of buoyancy of a ship's form to different waterplanes, using Terebyscheff's rules for the spacing of sections.

2. Describe how to make a body-plan of integrated sections. Prove the relation between the areas of waterplanes curve, the displacement curve, and the position of the vertical C.B.

3. Find the moment of inertia of the parabola $y^2 = 4ax$ about an axis through its c.g. and parallel to OY . Take y between the limits of 0 and h .

4. Explain the principle of standardising the displacement sheet curves. Give the scales. What are the features of the metacentric curves of the following types: (a) Sailing yacht, (b) channel steamer, (c) full cargo vessel, (d) battleship?

5. Explain how to find the locus of the c.g. of the cargo space, and show how to construct a curve diagram, giving the metacentric height:

(a) Density varying, volume constant.

(b) Density and volume varying, draught constant.

6. A vessel of displacement 2500 tons, length = 300 ft., has a moment to trim 1 in. of 220 ft. tons, and a tons per inch of 20 tons. Find the sinkage and change of trim, aft and forward, due to filling a compartment with 80 tons of water. The effect of the flooding is to lower the longitudinal metacentre 20 feet, and the c.g. of the damaged waterplane is 120 feet from the A.P. Distance of the c.g. of compt. = 20 ft. forward of amidships, which was originally c.g. of intact waterplane.

7. Give figures for the inclination of ways and of blocks for different yards and types of ships. What kind of vessel is most liable to "tip" during launching? How is the danger of tipping avoided? Show how to calculate the tipping or the lifting moments that may exist during launching.

8. How does loose water in the hold affect the initial stability? A vessel has a G.M. of 1.2 feet at a displacement of 400 tons. Water then enters the bilges. Its surface is a rectangle 20 feet long \times 18 feet wide. Find the loss in metacentric height.

9. Describe fully how to construct a set of lines, having been given type of vessel, dimensions, displacement, and position of L.C.B.

10. Give figures for height of C.B., height of C.G., metacentric height, and tons/inch of the following:

- Sailing yacht.
- Fast passenger vessel.
- Large full cargo vessel.
- Large Atlantic liner.
- Battleship.
- Torpedo boat destroyer.

Give dimensions and drafts of the vessels for which the above-named quantities are given.

11. How is G.R.T. measured? Enumerate the parts included in above deck tonnage. How is the N.R.T. obtained? What is the chief anomaly in the incidence of tonnage dues?

12. How are the weights of a ship's structural parts usually classified? Show how to make up the general equation for fixing the necessary dimensions suitable for a given speed, length of voyage, deadweight carrying capacity on a certain load draft.

MARINE ENGINEERING.

FIRST PAPER—THREE HOURS.

1. Sketch (a) crown-stay of a combustion chamber.
(b) connection of a main boiler-stay to the end plates.
(c) connection of furnace to the combustion chamber.

Describe how the fire tubes are fitted in a cylindrical boiler.

2. How is the heating surface of a boiler calculated? What sizes of boilers would be necessary for an engine of 4000 I.H.P.?

3. Describe the order of fitting together the different parts of a cylindrical boiler. What sizes in a boiler are fixed from the necessities of working?

4. Describe any two systems of mechanical draft. Enumerate the advantages of forced draft.

5. Describe with the aid of sketches any form of small type water-tube boilers and any two forms of the large-tube type. Give figures for $\frac{HS}{GA}$ and V.H.P. per ton of boiler for the types.

6. Describe any form of indicator and how to take indicator diagrams. How is the horse-power calculated from the diagram?

7. Give a short description of the various kinds of coal used for marine purposes. A sample of coal contains 85 per cent. C, 5 per cent. H, and 3 per cent. O. Find the number of thermal units given off per lb., and the air required per lb. How much water would a lb. of this coal evaporate from a feed temperature of 120° F. to steam 212° F.?

SECOND PAPER—THREE HOURS.

1. Make sketches of two of the following: (a) Section through a jacketted cylinder, (b) section through a stem tube, (c) thrust block.

2. Enumerate and describe the functions of the auxiliaries usually in an engine room, and sketch a plan showing their general arrangement.

3. An engine of 1200 I.H.P. has the power equally distributed between the three cylinders. The stroke is 3 ft.

Calculate the sizes of all the main parts of the shafting. Give the formulae you use.

4. Describe and sketch the oval diagram, and show the effect of altering the cut-off, angular advance, and lap.

Give the equations to the displacement of the piston and of the eccentric.

5. Describe Stephenson's link motion. Show by a Zeuner's diagram the effect of linking up.

6. Describe fully how to balance a light-running engine, taking into account the masses of the eccentrics.

7. Show by sketches the principle of Parson's turbine, and of the De Laval turbine.

ELECTRICITY PURE AND APPLIED—THREE HOURS.

1. Describe the construction and method of use of the Kelvin type of Quadrant Electrometer, and explain how it is that a multicellular voltmeter may be applied to an alternate current circuit. When applied to such a circuit the multicellular voltmeter is said to indicate the effective or virtual volts. Explain what this means, and derive the relation between the effective volts and the maximum value of the E.M.F. in the case of an alternating E.M.F., obeying the simple harmonic law.

2. Describe how the horizontal intensity of the earth's magnetic field is determined, deriving all the formulae required.

Two unequal straight magnets are clamped together at their centres (1) with like poles pointing in the same direction, (2) with like poles pointing in opposite directions, (3) at right angles to one another. In each case the system is suspended by a torsionless fibre so that the magnets can swing in a horizontal direction, and the periods of small oscillations are found to be t_1 , t_2 , t_3 respectively. Prove that

$$2/t_3^4 = 1/t_1^4 + 1/t_2^4.$$

3. State the laws of Kirchhoff for the distribution of steady currents in a network of conductors.

If a, b, c, d be resistances forming a Wheatstone rectangle and a current i enter at the junction between a and c , show that the current in the galvanometer branch is given by

$$i' = \frac{ad - bc}{(a + b + c + d)g + (a + d)(b + c)} \cdot i,$$

where g is the resistance in the galvanometer branch.

Describe the Post Office type of resistance box, and explain the method of using the box to locate a fault in the insulation of a very long lead, such as a telephone wire.

4. Calculate theoretical values for the voltage of a Daniell's cell from the data supplied (1) with reference to the thermo-chemistry of the cell, (2) with reference to contact differences of potential.

Draw a diagram illustrating the distribution of potential difference throughout the cell, and explain why one Daniell's cell, however large, won't electrolyse water.

5. Explain why it is that when a circuit of constant inductance is acted on by a steady E.M.F. the current takes some time to attain its steady value. Find an expression for the current at any time after make, and illustrate the growth of the current by a diagram.

A circuit of resistance 3 ohms and inductance 0.04 henry is subjected to a steady E.M.F. of 110 volts. Find the time constant of the circuit and the value of the current 0.03 of a second after make.

6. A circuit of constant inductance 0.2 henry and resistance 10 ohms is acted on by a simple harmonic E.M.F. whose effective value is 100 volts and frequency 50 alternations per second. Find the effective current, the difference of phase between E.M.F. and current, and the activity developed in the circuit.

7. Define the practical units of current, resistance, potential, capacity, and inductance. Derive dimensional expressions for current, potential and inductance on both of the ordinary c.g.s. systems of units. Find the value of a volt and of a microfarad in c.g.s. electrostatic units, and of a henry in c.g.s. electromagnetic units.

C.—IN AGRICULTURE.

FIRST EXAMINATION.

MATHEMATICS—See pp. 562-565.

NATURAL PHILOSOPHY—See pp. 566-569.

CHEMISTRY See p. 651.

BOTANY—See pp. 649, 650.

ZOOLOGY—See p. 650.

FINAL EXAMINATION.

AGRICULTURE AND RURAL ECONOMY.

THREE HOURS.

(ALL the questions to be answered.)

1. If you desire to lay down to pasture three fields of ten acres each, one of stiff clay, one of medium free soil, and one of reclaimed moss well drained, what treatment would you give the soil before and after sowing, and what kinds and weights of seeds per acre would you use?

2. If you took possession at Martinmas of the ploughable lands, and the grass lands at Whitsunday, of a farm of fairly good quality of soil in the west of Scotland, from which you desired to sell only milk, grain, potatoes and hay, how many acres would you have under the various crops you propose to grow? What capital would you require? and how would you apportion it?

3. If you were planting a field of potatoes the land of which was already prepared for drilling and the drills of which were 200 yards long in which you proposed to place 20 tons farm yard manure per acre, each lot being within 50 yards of the ends of the drills, and 4 cwt. artificials, one plough to be constantly at work drilling, how many other persons and horses would be required to put in the manure, sow the artificials, plant the seed, etc., and how would each person be employed; the seed to be planted 14 inches apart and the drills to be 28 inches apart? With the staff named, what area might reasonably be expected to be completed in each day of ten hours?

4. Write all you know about the disease known as "Finger and Toe" in Turnips, especially with regard to means of propagation and prevention.

5. State how you would manure the Turnip and the Potato crops (*a*) with farmyard manure and artificials together, and (*b*) with artificials alone.

State what would be the effect of an excess or deficiency of any of the chief manurial ingredients on the quantity of the yield and the quality of the produce respectively, also state the chief characteristic difference in the manurial requirements of the Turnip and the Potato plants.

6. Give a daily ration of foods suitable for fattening a bullock of 1000 lbs. live weight. Calculate the cost and the return expected, and give particulars of the quantities of litter used, and the amount of manure expected to be formed in a period of 20 weeks.

AGRICULTURAL CHEMISTRY—THREE HOURS.

1. Give a full description of the process by which milk sugar is obtained from milk. Compare the properties of milk sugar, cane sugar, and grape sugar. How is grape sugar related to (1) milk sugar and (2) starch?

2. Name the impurities which are commonly found in (1) spring water and (2) river water. How does the presence of any or all of these impurities affect the suitability of the water for dairy purposes?

How can sewage pollution in a water be detected?

3. Discuss Liebig's theory of manures in the light of the Rothamsted Experiments, and give a critical account of the different methods of supplying nitrogen to a soil.

4. Give an account of the experiments which have been made on the retention of soluble salts by soils, and discuss any theories which have been advanced to explain the absorptive power of soils.

5. What is an albuminoid? Give a full description of some typical albuminoids, and state in detail the method by which you would proceed to determine the "albuminoid ratio" of a cattle food.

VETERINARY HYGIENE—THREE HOURS.

1. Describe the thoracic cavity of the horse. State what organs it contains, their relative positions, and briefly their functions.

2. State what you know of "Strangles," its causes (predisposing and otherwise), symptoms, treatment, and the preventive measures you would adopt to prevent its spread in a breeding establishment.

3. What is Mange? Give its causes, symptoms, and treatment, and the preventive measures you would advise to prevent its spread.

4. What is "Tympany"? Give its causes, symptoms, and treatment.

5. What is a Weed in the horse? What is a Weed in the cow? Give the causes, symptoms, and treatment in each animal.

6. State what you know of contagious pleuro pneumonia in cattle, its geographical distribution, history, symptoms, and mode of spreading. Say what police and other preventive measures you would take for its suppression.

AGRICULTURAL BOTANY—THREE HOURS.

1. Write the life-history of any Uredine fungus. Compare it with that of a Smut.

2. Explain why strong solutions of nutritive salts are useless or prejudicial as manures.

3. Describe in detail the inflorescence and flower of some specific grass, giving the name of the species you select. Explain the functions of the lodicules.

4. Write a morphological account of the modifications exhibited by parts of plants in connection with the storage of reserves of food.

5. Discuss the question as to the way in which Leguminous Plants obtain their nitrogen.

AGRICULTURAL ENTOMOLOGY—THREE HOURS.

1. Describe the mouth parts of a beetle, and compare with those of the bee.
2. How is respiration carried on in insects? Point out the modifications which occur in certain aquatic larvae and in parasitic larvae.
3. Mention insects which may be called "useful." (Give the general life-history of the bee, pointing out the origin of each of the hive products.
4. Give examples of the ways in which insects may be destructive, and state the conditions which are favourable and which are unfavourable to insect increase.
5. Give an account of wireworms and the damage they may occasion. What would you recommend to do in the case of an outbreak?
6. What is the nature of the damage done by the larvae of the "Daddy Long-legs"? Give remedial measures.
7. Describe the insect known as "mussel-scale." Indicate the nature of the damage it produces, and how it may be kept under.
8. State the life-history and the remedial and preventive measures to be adopted in the case of the sheep maggot fly.

AGRICULTURAL ENGINEERING—TWO HOURS AND A HALF.

(Not more than SEVEN questions are to be attempted.)

1. Define the terms: "work," "energy," and "power," and state in what units they are usually expressed.
The rim of a fly-wheel weighs 16 cwt., and has an equivalent diameter of 6 feet. What will be the amount of energy stored in the rim when running at a speed of 180 revolutions per minute?
2. With respect to the flow of water through pipes and channels, explain the meanings of the terms: "virtual slope," "hydraulic mean depth," and "pressure head."
An impounding reservoir is connected to a service reservoir by means of a water main 9 inches in diameter and 2000 feet in length; find the discharge in gallons per hour when the difference of the free-surface levels of the water in the reservoirs is 20 feet. [$v = 50\sqrt{i \cdot d}$.]
3. Describe, with the aid of sketches, the construction of any type of steam boiler with which you are familiar, stating the "fittings" with which it is usually provided, and explaining their purposes.
4. Describe how you would proceed to determine the indicated horse-power of a simple steam engine, and the apparatus you would employ for the purpose. The piston of a double-acting steam engine is 12 in. in diameter, and the stroke is 18 in.; the "mean effective pressure" on the piston being 25 lbs. per sq. inch; what would be the indicated horse-power at a speed of 80 revolutions per minute?

5. Describe the Otto cycle of operations as used in gas and oil engines, and sketch, roughly to scale, an indicator diagram for a gas engine. Explain one method of governing gas engines.

6. What is the British Thermal Unit, and what is its mechanical equivalent?

The calorific value of a sample of coal is 14,500. If 66 lbs. of this coal is consumed per hour in a boiler supplying steam to an engine of 20 brake horse-power, what is the ratio of the useful work done by the engine to the heat generated by the combustion?

7. Explain the meanings you attach to the terms: "Volt," "Ohm," "Ampère," "Watt," and "Electrical Horse-Power," and how they are connected.

If the resistance of an inch cube of pure copper is $\frac{67}{10^8}$ Ohm, what will be the resistance of a copper wire $\frac{1}{4}$ " in diameter and 2000 yards in length?

8. Describe, in a general way, any form of wind engine with which you are familiar, explaining how it is governed, and for what purposes it may conveniently be used.

9. Describe the construction and action of a spring tyne cultivator, and explain for what purposes it is used.

10. Describe a mowing machine, explaining the construction of the knife-board, and one method of communicating the forward motion of the drive-wheels to the knife.

D.—IN PUBLIC HEALTH.

FIRST EXAMINATION.

PUBLIC HEALTH LABORATORY WORK.

PRACTICAL—SEVEN HOURS.

1. Make a complete quantitative chemical analysis of the Sample of Water supplied. Give your opinion as to the Purity of the Sample, and as to its fitness for Trade purposes.

2. Estimate quantitatively the amount of Fatty Solids in the Sample of Milk provided, (a) by the Lefman-Beam process, and (b) by Soxhlet's method. State how near the amount found is to the amount ordinarily found in pure milk.

3. Prepare the necessary Cultures for bacteriological examination of the Sample of Water provided. Write your opinions regarding the value of methods of bacterioscopic examination of waters for potable purposes which are commonly employed.

4. Examine for Widal's reaction in the Sample of Blood supplied. Demonstrate to the Examiner the results found.

5. Stain the organisms given for Flagella. State in detail the method which you have employed.

6. Stain the Organisms given for Spores. Give in detail your method.

WRITTEN—TWO HOURS.

1. Name some of the Diseases communicable from Animals to Man. How does Anthrax manifest itself in Man? By what channels does it usually enter the body? Under what circumstances? How is it detected?

2. Under what circumstances would you condemn the flesh of an Ox for tuberculosis? State the arguments for and against the view that human and bovine tubercle are identical.

3. State the tests by which Margarine may be detected from pure butter. Describe in some detail and by means of sketches two of them, and state the principles upon which they are based.

4. What micro-organisms in a potable water would indicate that it was being contaminated by sewage? Describe how you would isolate them from a sample of the water, and by what cultural methods you would recognise them.

5. By what methods, cultural or otherwise, may *B. Coli Communis* be differentiated from *B. Typhosus*?

GEOLOGY.

(Six questions to be answered.)

1. Describe the minerals augite, quartz, orthoclase, calcite.

2. Describe the rocks syenite, basalt, schist, trachyte.

3. Describe rocks that you think would be suitable for

(a) Ornamental Building Stones.

(b) Plain Building Stones.

(c) Road Metal.

4. What are the chief types of soil? How might each have been formed?

5. Sketch and describe arrangements of strata favourable to the accumulation of under-ground water.

6. Discuss the process known as weathering.

7. Describe the lower half of the Carboniferous System with special reference to the succession of rock types in the district round Glasgow.

8. Describe the Pre-Cambrian rocks of Britain.

IV.—FOR DIPLOMA IN EDUCATION.

SCHOOL MANAGEMENT—THREE HOURS.

1. Summarise the rules laid down by the Scotch Education Department for (a) the Calculation of Attendance, and (b) the Keeping of the Log-Book.

2. Write short notes on :

(a) "Stipendiary Monitor."

(b) "Provisionally Certificated Teacher."

(c) "Qualifying Examination."

(d) "Conscience Clause."

3. What general rules would you lay down for your guidance in drawing up a "Supplementary Course" in English?

4. Draw up a three years' course of Nature Study Lessons suitable for the Junior Division of an Elementary School.

5. In what circumstances would you make use of Simultaneous Work in your teaching, and for what reasons?

6. How soon would you begin the study of Decimal Fractions, and what difficulties would you expect to meet with? Write brief notes of a first lesson.

7. Draw up a Scheme of 'concentric' History Lessons suitable for the three highest classes of the Senior Division of an Elementary School.

TEACHING IN SECONDARY SCHOOLS.

ENGLISH—THREE HOURS.

1. Discuss the best means of giving, in relation to contemporary history, (a) a General Lesson on Chaucer's *Prologue*, or (b) an Introductory Lesson on one of Shakespeare's English Historical Plays.

(It is recommended that AT LEAST an hour be devoted to the above question.)

2. (a) Write Notes of a First Lesson on the Anglo-Saxon Pronoun for a class that already know an 'inflected' foreign language, showing what use you would make of the 'comparative' method. Or,

(b) Show what points you would emphasise in a First Lesson on Northern Middle English to a class already acquainted with Anglo-Saxon.

3. What use would you make of Text-books of English Literature in your teaching of that Subject? Illustrate by reference to a specific lesson.

4. By reference to some great Historical Event, illustrate what you regard as the chief object of teaching History.

CLASSICS—THREE HOURS.

1. (a) Discuss the "Cornell Method" (Professor Hale's) of teaching Latin, giving your estimate of its value. Or

(b) Sketch clearly the means whereby you would explain the structure of the Greek drama to a class already well acquainted with Shakespeare.

(It is recommended that AT LEAST an hour be devoted to the above question.)

2. "There is scarcely any doubt that progress in the dead languages would become more rapid if the language came not only through the eye but more through the ear than it does in most places now."—MADVIG.

Discuss this. What means would you take to carry out Madvig's idea?

3. *Latin pronunciation.* How would you treat it in school? State briefly the main differences between English and Latin pronunciation. How far do you consider it to be important to insist on as correct a pronunciation as possible?

4. Explain and exemplify the methods you would adopt in the correction of prose composition exercises.

5. (a) What would you consider the points of greatest importance to put before a class beginning the study of Tacitus? or (b) What would you expect to be the main difficulties a class would meet with in beginning the study of Homer?

FRENCH AND GERMAN.

1. (A) "*Gesprächige Leute von engem Gedankenkreise sind für den Anfang die besten Lehrmeister.*"—JESTERSEN.

Discuss fully this dictum in its bearings upon the teaching of Modern Languages. Or

(B) Show clearly what use you would make (a) of Latin and (b) of modern French in introducing a class to the study of Montaigne or the *Chanson de Roland*.

(It is recommended that AT LEAST an hour be devoted to the above question.)

2. Sketch a reasonable scheme of work in French for a Higher Grade School three years' course—pupils from 12 to 16 years of age. State briefly and explain the methods you would employ at the various stages.

3. At what point in a school course ought continuous composition to be introduced? What are the most important points to bear in mind with regard to passages? How would you conduct the composition lesson, and how would you correlate it with the rest of the work?

4. Show clearly what use you would make of the Comparative method in teaching German declensions and conjugations to a class that already knows Latin.

5. Take any six words of modern French and show how you would explain to a class the steps by which the modern form has been reached.

V.—FOR DEGREES IN MEDICINE AND SURGERY.

I.—PRELIMINARY EXAMINATIONS.

ENGLISH—THREE HOURS.

(EIGHT, and not more than EIGHT, questions are to be answered. 1 and 2 must be answered, with either 3 or 4, and either 5 or 6. The remaining FOUR may be any questions not already answered.)

1. Write an essay, of from two to three pages, on *one* of the following subjects :

- (1) The value of royal pageants.
- (2) An account of any one novel by Scott, Thackeray, or Dickens.
- (3) The use and abuse of the power of the Press.

2. Paraphrase :

This only grant me, that my means may lie
Too low for envy, for contempt too high.

Some honour I would have,
Not from great deeds, but good alone ;
Th' unknown are better than ill known :

Rumour can ope the grave.
Acquaintance I would have, but when 't depends
Not on the number, but the choice, of friends.

Books should, not business, entertain the light,
And sleep, as undisturbed as death, the night,

My house a cottage more
Than palace ; and should fitting be
For all my use, no luxury.

My garden painted o'er
With Nature's hand, not Art's ; and pleasures yield,
Horace might envy in his Sabine field.

Thus would I double my life's fading space ;
For he, that runs it well, twice runs his race :

And in this true delight,
These unbought sports, this happy state,
I would not fear, nor wish, my fate ;

But boldly say each night,
To-morrow let my sun his beams display,
Or in clouds hide him ; I have liv'd to-day.

3. Give some account of any *four* of the following : Harold, Becket, Henry V., Mary Tudor, Hampden, Montrose, Marlborough, Warren Hastings.

4. Give some account of any *four* of the following : The Scotch War of Independence, Tyler's Rebellion, Maid of Orleans, Battle of Bosworth, Cardinal Wolsey, Petition of Right, Monmouth's Rebellion, the Seven Years' War, Bunker's Hill, "Peterloo."

5. Give some account of *six* of the following : Batoum, Alexandria, Denver, Utrecht, Wiesbaden. Valparaiso, Chimborazo, Winnipeg, Mandalay, Palermo, Hecla, Navarino.

6. Describe either :

(1) The Trans-Siberian Railway.

Or,

(2) The three chief railway routes from London to Scotland.

7. Rewrite, so as to correct or improve them, the following sentences, giving reasons for all changes made :

(1) Lost a fine retriever ; if found in anyone's possession, will be prosecuted after this date.

(2) The going is very rough, owing to the digging down and wearing away of the road by rains.

(3) Nothing that he or you have said seems to directly bear on the question.

(4) This measure will only be endured by the Unionist party so long as it is perfectly harmless and useless.

8. Give a general analysis of the following passage, and parse the words in italics :

On the Earl's cheek the flush of rage

O'ercame the *ashen* hue of age :

Fierce he broke forth—"And darest thou then

To beard the lion in his den,

The *Douglas* in his hall ?

And hopest thou hence *unscathed* to go ?—

No, by St. Bride of Bothwell, no !

Up drawbridge, grooms—what, Warwick, ho !

Let the porteullis fall."

9. Derive any *six* of the following words : Fiction, library, hospital, encyclopædia, mansion, picture, gossip, frail, scholarship, bursary, Friday, daisy.

10. Define and exemplify : Metaphor, simile, personification, epigram, irony, hyperbole.

11. Add a note to any *three* of the following : Pendennis, A Tale of Two Cities, In Memoriam, The Dunciad, Gulliver's Travels, The Vicar of Wakefield, Quentin Durward, The Canterbury Tales, Omar Khayyam, Barrack-Room Ballads, Ossian, The School for Scandal.

12. Explain the following : Tammany Hall, the Fourth Estate, Twelfth Night, Old Style and New Style, Passive Resistance, Index Expurgatorius, Red Tape, Mrs. Grundy.

LATIN—See p. 524.

GREEK—See p. 527.

MATHEMATICS—See p. 531.

FRENCH—THREE HOURS.

1. Translate into French :

(a) "What is your name, my good woman?" asked he. "Judith Gardener."—"And your father's name?" "Ah! poor man. Rip Van Winkle was his name; but it is twenty years since he went away from home with his gun, and never has been heard of since. His dog came home without him; but whether he shot himself, or was carried away by the Indians, nobody can tell. I was then but a little girl." Rip had but one more question to ask; but he put it with a faltering voice—"Where is your mother?" "Oh! she too died but a short time since." The honest man could contain himself no longer. He caught his daughter and her child in his arms. "I am your father!" cried he; "young Rip Van Winkle once, old Rip Van Winkle now! Does nobody know poor Rip!" All stood amazed until an old woman, peering in his face for a moment, exclaimed, "Sure enough, it is Rip Van Winkle, it is himself! Welcome home again, old neighbour. Why, where have you been these twenty long years?"

(b) I have been writing for half an hour.

He has returned the money, but he has not returned here.

This has cost them hundreds of pounds.

You were asking for him; here he is.

I do not remember having ever seen it.

2. Translate into English :

(a) Le déplaisir de sa mère et les menaces mêmes de son père n'étouffaient ni les visions ni les voix. Obéissante en toute autre chose, Jeanne d'Arc désirait obéir même en ceci; mais l'inspiration était plus obstinée que la volonté. Elle gémissait de désobéir, et elle suppliait Dieu de lui épargner ces efforts qui déchiraient son cœur. Elle espérait bien obtenir plus tard le congé et le pardon de ses parents, comme, en effet, ils lui pardonnèrent quand sa gloire eut justifié à leurs yeux sa désobéissance. L'inspiration est comme le génie, on ne la couronne qu'après l'avoir combattue.

(b) Après le repas nous allons passer notre soirée sur le rivage, où les objets récréatifs ne nous manquent pas, sans compter les pierres plates, avec lesquelles on fait des ricochets sublimes. Puis deux garçons qui viennent de décharger du sable proposent de nous faire naviguer dans leur gros bateau, et nous d'y sauter aussitôt. Cependant le soleil se couche, le mouvement cesse insensiblement sur le port, la nuit envahit de ses ombres la profonde vallée du Rhône, et quand des plus hautes cimes se sont retirées les dernières lueurs, il ne nous reste plus qu'à regagner le gîte pour y trouver le sommeil.

II. GRAMMAR.

1. Give the 2nd pers. singular and plural of the imperative of *savoir*, *avoir*, *faire*, *vivre*, *étendre*, *éteindre*.

2. Form adverbs from *puissant*, *sot*, *poli*; state the rules and give one more instance of each formation.

3. Distinguish between *celui*, *celui-ci*, and *ceci*.

4. Translate: It is useful to know French; it is a useful thing to know French. Explain the difference in the translation of *it is*.

5. Write in the feminine singular and in the masculine plural *un vieux garçon*, *est-il fou ou malade ? lui seul est maître*.

GERMAN—THREE HOURS.

(Candidates may use either English or German Script.)

I.

1. Translate into German:

(a) It is no longer day. Through the trees rises the full red moon, and the stars are scarcely seen. In the vast shadow of night the coolness and the dews descend. I sit at the open window to enjoy them; and I hear only the voice of the summer wind. All the birds are silent; not even the nightingale can be heard to-night. The great trees cast their dark shadows on the grass. I cannot see the red and blue flowers, but I know they are there, for their perfume rises to meet me like the greeting of old and well-loved friends. Far away in the meadow gleams the silver river. The tramp of horses' hoofs sounds from the wooden bridge. Then all is still, save the continuous wind of the summer night. Sometimes I know not if it be the wind or the sound of the neighbouring sea. The village clock strikes; and I feel that I am not alone.

(b) Translate the following sentences, paying special attention to the idiomatic construction:

- (1) He set out this morning without saying good-bye to me.
- (2) Put on your hat, otherwise you may catch cold.
- (3) I should like to go to the theatre, but I don't care to go alone.
- (4) For my brother's sake, I have been working the whole morning.
- (5) I am sorry to tell you that your horse is dead.

2. Translate into English:

(a) Das junge Mädchen stieg in freudiger Hast in den auf sie wartenden Schlitten. Der Kutscher knallte mit der Peitsche, die Glocken der Pferde erklangen, und fort ging es in den klaren, hellen Wintermorgen hinein. Auf der hoch gelegenen Landstrasse wehte der Wind scharf und kalt dem Schlitten entgegen, aber die darin Sitzende merkte es kaum. Aus jedem Zuge ihres frischen Gesichts glänzte die Freude. Ihre hellen Augen blitzten, und von Zeit zu Zeit lachte sie leise vor sich hin vor lauter innerer Glückseligkeit. Gibt es denn aber auch auf der weiten Gotteswelt etwas Herrlicheres als am Weihnachtsmorgen nach Hause zu fahren, nachdem man zum ersten Male in seinem Leben für längere Zeit davon entfernt war?

(b) Ich hatte mich unterdes ganz vorn auf die Spitze des Schiffes gesetzt, liess vergnügt meine Beine über dem Wasser herunterhängen und blickte, während das Schiff so fortlog und die Wellen unter mir rauschten und schäumten, immerfort in die blaue Ferne, wie da ein

Turm und ein Schloss nach dem andern aus dem Ufergrün hervorkam, wuchs und wuchs, und endlich hinter uns wieder verschwand. Wenn ich nur heute Flügel hätte! dachte ich, und zog endlich vor Ungeduld meine liebe Violine hervor und spielte alle meine ältesten Stücke durch, die ich noch zuhause, und auf dem Schloss der schönen Frau gelernt hatte. Auf einmal klopfte mir jemand von hinten auf die Achsel. Es war der geistliche Herr, der unterdes sein Buch weggelegt und mir schon ein Weilchen zugehört hatte. Er hiess mich meine Geige einstecken und führte mich zu einer kleinen luftigen Laube, die von den Schiffern aus jungen Birken und Tannenbaumen in der Mitte des Schiffes aufgerichtet worden war. Dort hatte er einen Tisch hinstellen lassen, und ich, die Studenten, und selbst das junge Mädchen, wir mussten uns auf die Fässer und Pakete ringsherum setzen.

II. GRAMMAR.

1. Give the nominative singular, genitive singular, and nominative plural of the following nouns with the proper article: Mutter, Sohn, Hund, Löwe, Wald, Herz.

2. Write out the German for: My best friend; which old house? a smaller garden; the largest book; your pretty sisters; all my letters.

3. Write out the third singular and third plural present indicative of: wollen, sollen, können, dürfen, mögen, müssen.

4. Give the first singular imperfect indicative and first singular perfect indicative of the following verbs (active voice only): singen, fallen, fahren, führen, nennen, wissen.

5. Construct six phrases or very short sentences showing prepositions—two governing the genitive, two governing the dative, and two governing the accusative. Translate all the phrases.

II.—PROFESSIONAL EXAMINATIONS.

I.—FIRST PROFESSIONAL EXAMINATION.

BOTANY.

(Only FOUR questions are to be attempted.)

(Candidates for First B.Sc. must attempt to answer ALL the questions.)

1. Describe the life history and mode of nutrition of either *Mucor* or *Vaucheria*.

2. Give a brief account of the physiology of germination in an ordinary Dicotyledon.

3. What is an archegonium? Describe its structure in a Pine, a Fern, and a Moss.

4. Describe various methods by which plants distribute their seeds, giving illustrations from the British Flora.
5. Give an account of the various types of fruit found in the Rosaceæ, and explain their relations to one another.

ZOOLOGY.

(*Candidates for Medical Degree are not to attempt more than FOUR questions.*)

1. How do the Actinozoa differ from the Hydrozoa? Give a short comparative account of the different kinds of "Coral."
2. Describe the life history of *Distoma* (Liver fluke).
3. State briefly what you know of the nucleus in Protozoa. Can you indicate any cases in this group in which a fusion of nuclei has been shown to take place during conjugation?
4. What do you know of otocysts and their function?
5. Describe the cranial nerves of a Dogfish or Skate.
6. Mention the more important points in the structure of *Amphioxus*.

PHYSICS.

(FOUR questions only to be attempted.)

1. Define *velocity*, *acceleration*, *equal masses*, *equal forces*.

A body is thrown vertically upwards with a speed of 60 miles an hour. Find at what times it is 105 feet above the point of projection. (Acceleration due to gravity 32 in foot-pound-second units.)

2. State and explain the principle of Archimedes.

Hammerschlag's method for finding the specific gravity of the blood is to mix chloroform and benzol in such proportions that when a drop of blood is immersed in the mixture, it neither sinks nor floats, but remains stationary. In a certain experiment by this method 10.5 cubic centimetres of chloroform (s.g. 1.5) had to be mixed with 18.9 cubic centimetres of benzol (s.g. .8) to give the required condition. Find the specific gravity of the blood.

3. Describe the method of resonance for finding the velocity of sound with a tuning fork of known pitch.

If the resonating length of a pipe closed at one end for a fork of frequency 256 is one foot one inch, find the lengths in the same pipe for the other tuning forks of the common chord, frequencies 320, 384, 512.

4. Give a diagram illustrating a virtual and magnified image due to a positive (or convergent) lens.

5. Explain what is meant by *specific heat*, *Joule's dynamical equivalent of heat*.

An electric heater consists of a coil of platinum wire of resistance 2 ohms. This is immersed in 120 grammes of water and a current of 10 amperes runs for 3 minutes. Assuming that 70 per cent. of the heat developed goes to warming the water, find the temperature rise produced.

6. Explain the methods of arranging a set of similar storage cells (*a*) in series, (*b*) in parallel, and state what the electromotive force of the combination is in each case.

A circuit is made up of 50 storage cells in series, each of electromotive force 2 volts, and of 20 incandescent lamps in parallel, each of resistance 160 ohms. Find (neglecting the resistance of the cells and connecting wires) the total current given by the cells.

CHEMISTRY.

(FOUR questions to be answered for *M.B.*, or *B.Sc. in Engineering*; FIVE for *M.A.* or *First B.Sc. in Pure Science*.)

1. In what different ways can carbon monoxide be prepared? State what you know of its properties and its technical applications.

2. What facts are implied in the formula HCl which is given to hydrochloric acid gas? How can these facts be established?

3. What is the chemical nature of soap? How is it made? Explain the action of a hard water on soap, and indicate how hard waters can be softened.

4. What volume of ammonia gas at 21° and 750 mms. could be obtained from 10 grms. of ammonium nitrate, and what volume of hydrochloric acid gas, measured at the same temperature and pressure, would suffice to neutralize the ammonia?

5. Describe and explain how acetic aldehyde is prepared from alcohol. Write its constitutional formula, and give an account of its properties and reactions.

6. What is the chief ore of lead, and how is the metal obtained from it? Mention three important compounds of lead, and explain how they could be prepared from the metal.

II.—SECOND PROFESSIONAL EXAMINATION.

ANATOMY.

1. Describe the surfaces of the temporo-maxillary articulation, together with the interarticular fibro-plate, and the movements allowed between it and the surfaces in contact with it; and also state the action of each of the muscles engaged in moving the lower jaw.

2. Give a short account of the development of the internal ear, sufficient to explain the connexion of the different parts of the membranous labyrinth one with another.

3. Describe the origins of the visceral branches of the abdominal aorta, and the nervous arrangements in contact with that trunk.

4. Describe the characters of cardiac muscular fibre, and the characters and disposition of the muscular fibres of the aorta and other arteries of different sizes.

PHYSIOLOGY.

(FOUR questions only to be attempted.)

1. Describe the arrangement of the renal tubule in the kidney and its histological structure. (a) What is the percentage composition of the urine as regards water, urea, chlorides, and phosphates? (b) From what sources is urea derived? In your answer to (b) discuss the experimental evidence that has been offered.

2. Describe in detail the process of clotting in mammalian blood, and give an account of the experimental evidence in support of your statements. (a) Under what conditions may blood clot in the blood-vessels during life? (b) What are the effects upon the process of (1) leech extract, (2) oxalates, and (3) proteoses, and state how these effects have been explained?

3. Describe the structure and arrangement of the iris. (a) What are its uses? (b) Give an account of its innervation. (c) What do you understand by "intra-ocular tension"?

4. Describe the terminal organs of taste in the tongue. What nerves are involved?

5. What effects may be produced on blood-vessels by stimulation of
- (a) Cerebral end of superior cardiac nerve (depressor).
 - (b) Central end of sciatic nerve.
 - (c) Peripheral end of sciatic nerve.
 - (d) Peripheral end of sympathetic nerve in the neck.

Explain the rationale of each effect.

MATERIA MEDICA AND THERAPEUTICS.

1. Compare the action and value as hypnotics of *Chloral Hydrate*, *Morphine*, *Paraldehyde*, and *Potassium Bromide*, stating the dose of each, and mentioning any hurtful or unpleasant consequences of their use.

2. On what principles would you diet a person suffering from (1) Gastric Ulcer, (2) Acute Pneumonia, (3) Chronic Pulmonary Phthisis? Write out a sample of the dietary for one day in each case.

3. What is the chemical composition of *Oil of Turpentine*? Describe its pharmacological action and therapeutical uses, giving preparations and doses.

4. What is *Cocaine*? Enumerate the preparations made from it, giving the strength and dose of each. Describe the chief therapeutical uses of the drug. What symptoms may result from a poisonous dose, and what immediate treatment would you adopt in such a case?

III.—THIRD PROFESSIONAL EXAMINATION.

PATHOLOGY.

(Only FOUR questions to be answered.)

1. Write a full account of a post-mortem examination supposed to be held on an individual who has died after an illness of several months' duration caused by mitral incompetence. In your answer rely in so far as is possible on what you may have seen in the post-mortem room.

2. Describe the process of thrombosis. Discuss the etiological factors concerned, and enumerate the ordinary conditions in which it may arise in the body.

3. Describe minutely the cellular processes concerned in the development and course of an acute abscess. Enumerate the bacteria most commonly found in such abscesses.

4. Give an account of what takes place in acute transverse myelitis. If such a lesion occurs in the lower dorsal region, what secondary ascending degenerations will follow in the cord? What occurs in these degenerations, and how may they be microscopically demonstrated?

5. Describe the changes which take place in the kidneys and in the urine in catarrhal nephritis. Mention the complications which may ensue in the later stages of the disease.

MEDICAL JURISPRUDENCE.

(NOTE.—Candidates under the New Regulations to answer FOUR QUESTIONS, of which No. 4 MUST BE ONE; Candidates under the Old Regulations to answer all the questions.)

1. Describe briefly the difference between the procedure in Scotland and England in regard to investigation of cases of violent death.

2. Describe the various changes which take place in a body after death, and show how they may be utilised to determine the time when death occurred.

3. You are requested to make the post-mortem examination of the body of a man who has received a stab wound which has penetrated the Right Ventricle of the Heart. Describe shortly your mode of examination, and the points of medico-legal importance which should engage your special attention.

4. What symptoms, post-mortem appearances, and tests applied to the contents of the stomach, would justify you in ascribing the death of a young woman to Phosphorus poisoning?

5. What are alkaloids? Give examples; and name the fatal doses of those mentioned. What are the special difficulties in establishing proof of this class of poisoning?

PUBLIC HEALTH.

1. Mention the elementary physiological and physical facts which govern questions of practical ventilation.

2. Contrast the value of Hard and Soft waters as sources of domestic supply, and describe how the disadvantages of either may be removed.

3. How would you deal with the excretal refuse of a large temporary community—such as an encampment of Volunteers—and what are the special dangers to be guarded against?

4. State the general sanitary precautions which should be adopted in a place which is threatened with an outbreak of epidemic disease.

5. What is understood by epidemic diarrhoea? What circumstances favour its prevalence, and what measures should be taken to prevent its occurrence?

IV.—FINAL PROFESSIONAL EXAMINATION.

SURGERY.

(Only FOUR questions to be answered.)

1. In disease of bone give the leading features of, and differentiate between, pyogenic osteomyelitis, tubercle, and syphilis.

2. Describe the various tumours of the mamma, and give the distinctive characters of each.

3. Describe the commonest form of organic disease of the tongue, and give in detail its treatment.

4. Give the differential diagnosis between simple and malignant tumours of the parotid gland. What is the usual nature of each, and what treatment would you employ?

5. Describe the immediate and remote results, both in the nerve and in the parts supplied by it, of division of the ulnar nerve just above the wrist. What treatment would you adopt?

PRACTICE OF MEDICINE.

1. (a) Give a list of the enlargements of the spleen, indicating those in which the enlargement may be very great, and those which are likely to be irregular.

(b) Select one of these conditions and write down what you know with regard to it.

2. How would you treat typical uncomplicated cases of

(a) Lead colic;

(b) The night-sweats of phthisis;

(c) Psoriasis?

3. Give the diagnosis of chronic gout from chronic rheumatoid arthritis, and their treatment.

4. A soldier, aet. 32, when admitted into hospital, stated that he had always hitherto enjoyed fair health, but admitted that he had led a very irregular life. He complained of debility, some loss of flesh, excessive urination, and, above all, of a right internal squint of some weeks' duration; indeed, it was this which induced him to seek advice.

On examination he was found to be pallid, weak, and slightly emaciated, but there was no fever. The internal squint was pronounced, and he was quite unable to turn the eye outwards. There were no head symptoms and the heart and lungs were healthy, while the digestion was fair. But the liver was greatly and uniformly enlarged: it was firm but neither painful or tender. The urine was very pale, 120 ounces per day, sp. gr. 1013: it contained a little albumen, and an occasional hyaline or granular tube cast was discovered in the scanty deposit. Finally he had a patch of tubercular eruption about the size of the hand on the right shoulder.

Give your opinion of the nature of the case, and the grounds for your diagnosis: say what treatment you would recommend; and, in the event of a fatal issue, what would you expect to find "post mortem"?

OBSTETRICS AND GYNAECOLOGY.

(*Four questions to be answered, including 4 and 5.*)

1. State shortly what points can be made out by palpation at full term in

- (a) Cranial presentation.
- (b) Breech presentation.
- (c) Transverse presentation.
- (d) Twin pregnancy.
- (e) Deformed pelvis.

2. Enumerate the causes of delay in Breech cases, and describe the methods of dealing with such conditions.

3. Describe the various methods of performing Version, and state the conditions in which you might require to do the operation.

4. Give the causes of Parametritis, and describe its course, symptoms, and treatment.

5. Give the differential diagnosis between

- (a) Ascites.
- (b) Advanced pregnancy.
- (c) Hydatidiform mole.
- (d) Large ovarian cyst.

VI.—FOR DEGREES IN LAW.

I. PRELIMINARY EXAMINATION FOR B.L.

a.—ARTS AND SCIENCE PRELIMINARY.

(See pp. 521-543.)

b.—ARTS SUBJECTS.

(Same as Degree of M.A. See pp. 544-571.)

II. LAW EXAMINATIONS FOR LL.B. AND B.L.

CIVIL LAW—THREE HOURS.

(Candidates are requested to answer only TEN of the following questions.)

1. Describe (*a*) the constitution, and (*b*) the functions, of the *comitia centuriata* during the early years of the republic.

2. "The Edict of Caracalla (212 A.D.) marked the completion of a long process of fusion between the various peoples within the Empire."

Discuss this statement, and examine the main forces operating during the first two centuries of the Empire to bring about this fusion.

3. Write a brief historical note on each of the following: *Leges Regiæ*; *Jus Aelianum*; *Breviarium Alarici*.

4. Give an account of (*a*) the position and work of the jurisprudentes (*veteres*) of the late republic, and (*b*) the Sabinian and Proculian Schools in the early Empire.

5. *Optima enim est legum interpres consuetudo* (D. 1. 3. 37).

Ex non scripto jus venit quod usus comprobavit. Nam diuturni mores consensu utentium comprobati legem imitantur (Inst. 1. 2. 9).

Examine these statements, and discuss the part played by custom in Roman Law.

6. What were the legal effects of *non justum matrimonium*?

Enumerate the various forms of *dos*.

In what cases was a *donatio inter virum et uxorem* valid?

7. Explain the theory and effect of the *interpositio auctoritatis* of a tutor.

State briefly the limitations on the powers of a *tutor impuberis* in the administration (*gestio*) of the pupil's estate.

What grounds of exemption (*excusationes*) might relevantly be stated by a person who, being duly qualified, had been designated *tutor* of a pupil?

8. Analyse the terms *res* and *possessio*.

Explain : *res publicae*, *res sacrae*, *res fungibiles*.

What elements were necessary to an effectual transfer of property by *traditio*?

9. What classes of *jura in re aliena* were recognised in Roman Law?

Describe the rights and duties of an *emphyteuta*.

On what conditions might an *emphyteuta* alienate his right in the land, in the Justinianian Law?

10. Distinguish between *delatio hereditatis* and *acquisitio hereditatis*.

State the law as to (a) *exhereditatio liberorum* and (b) *praeteritio liberorum* in a testament, at the date of the Institutes.

What was the effect of a *clausula codicillaris* in a testament?

11. Distinguish *negotia bonae fidei* and *negotia stricti juris*.

On what grounds might a *stipulatio* be *inutilis*?

In the Title of the Institutes, *de litterarum obligatione*, it is stated as follows:—*Olim scriptura fiebat obligatio, quae nominibus fieri dicebatur: quae nomina hodie non sunt in usu. Plane si quis debere se scripserit quod ei numeratum non est, de pecunia minime numerata post multum temporis exceptionem opponere non potest. Sic fit ut et hodie, dum queri non potest, scriptura obligatur; et ex ea nascitur condictio.*

Write a note, explanatory and historical, on this passage.

12. Translate and comment on the following texts:

Datur actio Publiciana ei qui ex justa causa traditam sibi rem nondum usucepit eamque amissa possessione petit. Gai. Inst. IV. 36.

Mora fieri intelligitur non ex re sed ex persona, id est, si interpellatus opportunum loco non solverit. D. 22. 1. 32. pr.

Quamdiu potest ex testamento adiri hereditas, ab intestato non defertur. D. 29. 2. 39.

Itaque si pecuniae ususfructus legatus sit, ita datur legatorio ut ejus fiat, et legatorius satisdet heredi de tanta pecunia restituenda, si morietur aut capite minuetur. Inst. II. 42.

Candidates who aim at the LL.B. standard are recommended, in addition, to answer two of the following questions:

1. What are the duties of the seller under the contract of sale? What remedies were available to the buyer in the case of a latent defect in the *merx*?

2. Discuss the rights and remedies of the parties to a contract of sale, to which a *pactum displicentiae* has been adjoined.

3. Si res vendita per furtum perierit, prius animadvertendum erit, quid inter eos de custodia rei convenerat; si nihil appareat convenisse, talis custodia desideranda est a venditore, qualem bonus paterfamilias suis rebus adhibet; quam si praestiterit et tamen rem perdidit, securus esse debet, ut tamen scilicet vindicationem rei et condictionem exhibeat emptori. D. 18. 1. 35. 4.

Translate this passage, and state generally the rules as to liability for *casus* in the case of *negotia bonae fidei*.

SCOTS LAW—THREE HOURS.

(Not more than TWELVE of the following questions to be attempted, of which ONE must be in Criminal Law.)

1. Explain and illustrate novation and delegation. Remark upon the instances of (1) the introduction of new partners into a firm, and (2) an offer of composition in sequestration duly accepted and approved, but subsequently not implemented.

2. Distinguish *mutuum* and commodate. Explain how far proof *prout de jure* of the transaction will be permitted. Refer, also, to the position in the event of the bankruptcy of the parties interested.

3. Mention the remedies now open to a buyer of goods supplied disconform to contract, pointing out any difference from the old law. Are the remedies cumulative?

4. Discuss the liability of a carrier for accidental fire in each of the following cases, namely, where the carriage is (a) by canal boat, (b) by coasting vessel, (c) by sea-going steamer, and (d) by railway.

5. Give the statutory rules for the distribution of the assets of a partnership upon dissolution. What is the course in the case of a deficiency?

6. What remedies has a landlord of urban subjects to obtain payment of arrears in rent? The tenant having paid his current rent, removed his furniture on 26th May, his lease having another year to run. *Quid juris?*

7. Enumerate the principal urban servitudes. Mention, in regard to each, with reasons, whether it can be acquired by prescription.

8. State the limitation which applies to bills of exchange and the course open to the holder (a) to elide it, and (b) after it cannot be elided. Interest has been regularly paid on an overdue bill for three years. *Quid juris?*

9. How far do the *jus mariti* and right of administration still exist? Refer to heritage as well as moveables.

10. Explain and compare the rights of courtesy and terce.

11. Who are entitled to be confirmed as executors, and what is the order of preference? *Quid juris* where a general settlement contains no appointment of executors?

12. Describe the powers of a mother (a) at common law and (b) by statute over the person and property of her child who has not attained majority.

13. State and comment upon the common law and any statutory change with regard to the validity of a reference to a person unnamed to settle disputes or to extricate a part of a contract.

14. Explain the law of reset. Of what other crimes, if any, may a person charged with this crime be convicted?

15. Mention shortly the provisions for prevention of delay in bringing a criminal to trial.

CONVEYANCING—THREE HOURS.

(Not more than TWELVE questions to be attempted.)

1. Give the leading clauses in a Feu Charter with a brief note on the purport of each.

2. Indicate the origin and nature of the feudal casualties. Is composition properly described as a casualty?

3. What is a declarator of irritancy *ob non solutum canonem*? What is the effect upon sub-feus of a decree in such an action?

4. What is meant by "tendering the heir," and how is the practice affected by the Conveyancing Act of 1874?

5. Define a charter by progress, and enumerate the various writs to which the term is applicable, distinguishing those which have been abolished from those which may still be granted.

6. What is possession on apparency? Give the purport of the legislation of 1874 on the subject.

7. A dies intestate in right of (1) certain lands in which he was duly infeft, (2) certain other lands to which he succeeded as heir-at-law of his father but to which he did not complete a title, and (3) an unrecorded assignation of a bond and disposition in security, from which executors are excluded. Specify the various modes available to A's heir-at-law of completing a title to the several subjects.

8. How did a general disponee of lands *mortis causa* complete his title (1) prior to the Lands Transference Act, 1847, and (2) subsequent to that Act and prior to the Titles to Land Act, 1858? How does he now complete his title?

9. Indicate the specialties of burgage tenure, noting the effect of the Conveyancing Act of 1874.

10. Write an historical account of the Register of Sasines, showing the part it has played in the evolution of Scottish conveyancing.

11. Classify servitudes. How are they constituted? State what you know of the doctrine of implied grant.

12. How may a security over lands be constituted for a future or fluctuating debt? Why is the ordinary bond and disposition in security inapplicable to such a case?

13. Annotate three of the following: (1) *Litigiosity*, (2) *Beneficium inventarii*, (3) *Dispone*, (4) *Præceptio hereditatis*, (5) *Conditio si sine liberis decesserit*.

14. Frame destinations which will result in (1) a fiduciary fee, and (2) a fee vested subject to defeasance.

15. State the import of the provisions of the two leading Scottish statutes on the subject of the prescription of land rights.

16. Give the general principles enunciated in either (1) *Tailors of Aberdeen v. Coultts* (real burdens) or (2) *MacRitchie's Trustees v. Hislop* (rights of co-feuars *inter se*).

PUBLIC INTERNATIONAL LAW—THREE HOURS.

(1. *Omit FOUR questions.* 2. *Reasons or reference to authority expected.*)

1. What was or is the international status of the following: Hanover under the British Crown, Scotland under Charles I., the State of Maine, Prussia, the South American Colonies of Spain in 1825, the Confederate States of America in 1862, the Congo Free State, China?

2. If the United States had been by the Civil War split up into two states of not very dissimilar size, what would have been the result upon (a) a treaty of alliance, (b) a commercial treaty securing the admission of cotton free of duty into a European state?

3. (a) A foreign anarchist in London engaged in plotting against the British Government takes refuge in the house of his ambassador.

(b) An ambassador accredited to this country detains in the embassy an anarchist, a subject of the ambassador's state and plotting against it in London.

Can the anarchist's surrender or release be demanded in each or either case?

4. Show the international character of naturalization laws.

5. Discuss, from the point of view of international law, the rightfulness of intervention on behalf of a government against rebels, or of a people against tyranny. Does it make a difference that the intervention is (a) provoked by a prior intervention, (b) in implement of a treaty guaranteeing the maintenance of the existing régime, (c) at the instance of the Great Powers acting jointly?

6. If Great Britain had homologated the Raid, could the late Transvaal Government have put Dr. Jameson on his trial in their criminal courts?

7. On the outbreak of war between France and Germany, could France (a) treat the cession of Alsace-Lorraine as annulled, (b) expel German subjects resident in Paris, (c) confiscate French public debt held by Germans, (d) arrest German ships in French ports?

8. Mention some of the principal rules on the subject of occupied territory, dealing with the following or other points:—(a) When territory is considered occupied; (b) the right of armed resistance possessed by the inhabitants; (c) the invader's rights over real property and moveables respectively. Refer in your answer to any changes brought about by recent convention.

9. Are the following liable to capture: (a) a ship transferred to a neutral in contemplation of war; (b) a cargo of merchandise consigned to an enemy but not to become his property till he has found approved security for the price; (c) a cargo of ship's biscuit consigned to a commercial port of the enemy in proximity to his fleet; (d) a cargo of rifles consigned to a neutral port separated by a narrow strip of land from hostile territory?

10. (a) Is it a good answer to a charge of breach of neutral duty that the foreign enlistment legislation of the neutral state is insufficient to restrain the acts complained of?

(b) Are the international liabilities of a neutral state increased by the fact that its foreign enlistment acts give it powers, which it neglects to use for the benefit of the belligerent?

11. A capture having occurred through an illegal use of neutral territory, how and at whose instance may restitution be effected?

12. State what was provided by *either* the Declaration of Paris, 1856, or the Three Rules of the Treaty of Washington, 1871, and how far the earlier law was confirmed or altered thereby.

INTERNATIONAL PRIVATE LAW—THREE HOURS.

(1. Omit THREE questions. 2. Give reasons or reference to authority in support of your answers.)

1. A foreign married couple enter into a contract of voluntary separation. The wife continues to reside abroad with the infant child of the marriage. The husband settles in Glasgow, and obtains a certificate of naturalization as a British subject. What are (a) the nationality, (b) the domicile, of the child?

2. Discuss the maxims *nemo potest exuere patriam—ne quis in civitate maneat inritus*.

Can a foreigner who has settled in Glasgow and obtained a certificate of naturalization as a British subject, be compelled, on returning to his native land, to undergo the military service incumbent on citizens by its law?

3. A foreigner breaks up his establishment abroad, and comes here with his family and belongings to take up an appointment of a permanent character. Six months later he dies intestate. What law will regulate his succession? Will it make a difference what country he comes from?

4. Will the courts of this country recognize a marriage, celebrated in Glasgow in Scots form, between two foreigners who have not obtained the parental consents required by their native law, if that law (a) allows, (b) does not allow, the want of such consents to be made good by the performance of certain substituted formalities?

5. A horse is stolen in Scotland, taken by the thief to England, and there sold in market overt, which by English law gives a good title. If the purchaser brings it back to Scotland, can the original Scottish owner reclaim it in the Scottish courts?

6. Will the trustee in a Scottish sequestration be affected by a hypothec, invalid by Scots law, but valid by the law of the foreign country, constituted by the bankrupt over (a) a moveable, (b) a heritable, subject situated abroad?

7. (a) An Englishman is sued in Scotland for a tradesman's account incurred in England. He pleads the Scots triennial prescription which is shorter than the English limitation (six years).

(b) An Englishman is sued in Scotland on a contract entered into in England, to which the Scots vicennial prescription applies. He pleads that by the English Statute of Limitations the debt is barred.

Discuss the validity of either defence.

8. Two Scotsmen enter into a contract for the performance abroad of an act lawful by Scots law but unlawful by the law of the foreign country. (a) Will the Court of Session give damages to one against the other for non-performance? (b) If the contract is carried out, will the Court of Session give damages to a third party injured by the act?

9. A Glasgow merchant, while at a Danish port, charters a French ship to take a cargo to Glasgow. The master, who has granted the charter party as agent for the French owner, puts into a Portuguese port for repairs, and there grants a bond of bottomry and respondentia over ship and cargo. On arrival at Glasgow both ship and cargo are taken under the bond. On the law of what country will depend the charterer's right to be indemnified by the owner?

10. For what period will a foreign author obtain protection in this country for a work first produced abroad, or produced simultaneously in two foreign countries? Will an author of every country obtain this protection?

11. What law determines the necessity of writing to constitute or prove a contract? Is there any difference between Scots and English law on the point?

12. Consider the sufficiency of the following defences to an action brought in Scotland to enforce the judgment of a foreign court:—(a) that the foreign judgment was obtained by fraud; (b) that a plea of no jurisdiction tendered by the defender in the foreign court was by it improperly repelled; (c) that, the case as submitted to the foreign court turning upon Scots law, the foreign court proceeded on an erroneous view of that law.

JURISPRUDENCE—THREE HOURS.

(TEN questions only to be attempted, of which FIVE at least must be from Section A and THREE from Section B.)

A.

1. *Jus Gentium*. *Jus Naturale*. *State of Nature*. Explain the relation of these conceptions.

2. *Omnes homines naturā aequales sunt*. What significance had this maxim (a) to the Roman juriconsult? (b) to the French jurists of the eighteenth century?

3. What is meant by saying that "the movement of the progressive societies has hitherto been a movement from *Status* to *Contract*"?

4. "The positive duty resulting from one man's reliance on the word of another is among the slowest conquests of advancing civilisation." Explain and comment on this statement.

5. What, according to Maine, was the original purpose of a Will?
6. What does Maine mean by the statement that a Contract was long regarded as an incomplete Conveyance?
7. What is Maine's explanation of the poverty in early society of civil as compared with criminal law?
8. Into what stages does Maine divide the primitive history of criminal law?

B.

9. "The thought of man is not triable, for the devil himself knoweth not the thought of man."

"The state of a man's mind is as much a fact as the state of his digestion."

Discuss these maxims.

10. What methods of investigation are exemplified in Maine and Austin respectively? Discuss their relative value.

11. What view do Austin and Holland take of international law, and on what grounds?

12. What is meant by saying that Austin's theory suffers from the defects of his method?

13. What does Holland mean by a "Juristic Act," and what are its characteristics?

14. State and criticise the distinction drawn between civil and criminal law?

15. What is the meaning of Holland's classification of rights as "normal" or "abnormal"?

16. "Law has become so thoroughly 'Erastianised' that most people cannot separate it from the state, and many deny that it can be separated." Discuss this statement.

17. Discuss the principle of "*laissez faire*."

C.

(Students of Sessions prior to Session 1903-04, BUT THEY ONLY, may substitute any one or more of the following questions for questions in Sections A or B.)

18. State briefly Holland's view of the sources of law and of the nature of each.

19. What are "antecedent rights *in rem*," and how does Holland classify them?

20. What is Holland's view of Contract and of the necessity of Agreement therein?

21. "It is incorrect to define property as a relation of a person to a thing. It is also a relation to other persons" (W. G. Miller). Explain, referring particularly to literary and artistic property.

CONSTITUTIONAL LAW AND HISTORY— THREE HOURS.

(*Omit Two questions in each part.*)

PART I.

1. What two types of nobility existed in Anglo-Saxon times?
2. What reforms were effected by Henry II. on the law courts and on legal procedure?
3. Sketch in brief outline the transition from the elective kingship of the Saxons to the Stewart doctrine of indefeasible hereditary right.
4. Sketch briefly the history of free speech in parliament, referring more particularly to any two of the following: (*a*) Haxey's case (20 Ric. II.), (*b*) Strode's case (4 Hen. VIII.), (*c*) violation of the privilege by Charles I., (*d*) subsequent affirmations of it by statute or parliamentary resolution.
5. What were the origins of the high commission court and the court of commissioners for ecclesiastical causes, with what class of cases did they deal, and when were they abolished?
6. Discuss the arguments on both sides in the ship-money case.
7. What was enacted by the Triennial Act, 1641 (16 Car. I. c. 1), the Triennial Act, 1664 (16 Car. II. c. 1), the Triennial Act, 1694 (6 Will. and Mary. c. 2), and the Septennial Act, 1716 (1 Geo. I. c. 38); and what was the main constitutional significance of the last named?

PART II.

8. What measure of control does the electorate exercise over (*a*) the legislature, (*b*) the executive, and (*c*) the judicatory?
9. Is it a good return to a writ of *habeas corpus* that the prisoner is detained (*a*) by His Majesty's special command, (*b*) under a warrant of the Home Secretary authorising the arrest of the unnamed author of a specified libellous pamphlet? Refer to cases.
10. Can a colonial governor be sued by a colonist for illegal arrest (*a*) in the colonial courts, (*b*) in the home courts?
11. Discuss, after Prof. Dicey, (*a*) "the aim of federalism" and (*b*) "the essential characteristics of federalism."
12. Define "prerogative" and explain, with illustrations, what the word embraces at the present day.
13. "The rules which make up Constitutional Law, as the term is used in England, include two sets of principles or maxims of a totally distinct character." (*Prof. Dicey.*) Explain and illustrate.
14. "The composition of the House of Lords is determined by the royal prerogative." Examine, criticise, and illustrate. Mention (*a*) a legislative attempt to abridge the prerogative of creating peers, and (*b*) a case in which the bearer of a crown writ of summons, with letters patent, was not allowed to take his seat in the House of Lords.

MERCANTILE LAW—THREE HOURS.

(Not more than TWELVE of the following questions to be attempted.)

1. What is the distinction between corporeal moveables and incorporeal moveables? Explain the application to each of the Transmission of Moveable Property Act, 1862.

2. What is a negotiable instrument? State the outstanding characteristics and privileges of such instruments. Is a deposit receipt a negotiable instrument?

3. Apart from express contract what liability does a ship owner as a public carrier of goods undertake at common law?

4. What is demurrage? Refer to the instances of (a) a frozen port and (b) difficulty in procuring railway waggons.

5. A sells goods lying in a store in Glasgow to B, and endorses the delivery order to him. B thereafter without paying the price of the goods pledges the delivery order to a bank for an advance equivalent to one-half of their value. B is shortly afterwards sequestrated and X is appointed Trustee on his estates. The delivery order was duly intimated by the bank to the storekeeper. A warns the storekeeper not to part with the goods nor to recognise the rights of third parties to them in any way until the price has been paid to him. What are the rights of A, the Bank, and X respectively over the said goods?

6. When is the acceptance of a bill of exchange complete? If acceptance is refused, what course should the holder adopt? Give reasons.

7. What are the essential requisites in an application for sequestration where the petition is at the instance of a creditor without the consent of the debtor? *Quid juris* where the debtor is deceased?

8. State shortly the usual procedure which must be followed in a sequestration under the Bankruptcy Acts from the time the award of sequestration is made till the second meeting of creditors is held.

9. Give the essentials of a valid affidavit and claim in a sequestration by a creditor who holds a security over property belonging to the bankrupt. For what consideration may the security be taken over by the creditors or the trustee (1) where the oath is for voting, and (2) where the oath is for ranking?

10. What restriction has been imposed by the Bankruptcy and Cessio (Scotland) Act, 1881, on the right of a bankrupt to demand his discharge under the Act of 1856? What is the effect of the discharge when obtained? *Quid juris* if the discharge had been upon composition?

11. Under what circumstances may a shareholder in a public company be barred from rescinding his contract with the company even although the contract has been induced by the fraud of the directors of the company?

12. What restrictions are imposed under the Companies Act, 1900, upon a new company in the way of commencing business or borrowing money? When is a company entitled to commence business?

13. A limited company requires to increase its capital. The articles of association contain no authority to do so. Explain whether it is competent to do so, and what the procedure is.

14. A is the secretary of a limited company which goes into liquidation. At the date of the liquidation the company is owing a considerable sum to A for salary and cash advances. Is he entitled to retain the minute book and share register of the company in security of his claim?

15. What are the principal implied warranties in a policy of marine insurance?

FORENSIC MEDICINE—Two Hours.

(FOUR questions to be answered.)

1. Give a general account of the methods now in use for the Identification of Habitual Criminals. Compare these methods with relation to their applicability and value.

2. What is the legal right of a prisoner in respect of the examination of his or her person, and upon what general principle of justice is it founded? Name some of the crimes in which a bodily examination may be of value to the criminal authorities, and state wherein lies the value of the examination.

3. Upon what evidence may a medical practitioner found an opinion as to the time of death from an examination of a body? What is the phenomenon known as Rigor Mortis, and wherein does it differ from Instantaneous Rigor?

4. State the appearances likely to be found on the person of a woman charged with Infanticide which would be indicative of recent delivery. What is meant by live-birth in law, as applied to a newly-born child?

5. What circumstances would offer *prima facie* evidence that a person had been poisoned? What further procedure and evidence would be necessary to prove or disprove the suspicion?

6. Write a short note on any three of the following: Asphyxia, Hypostasis, Testamentary Capacity, Somatic and Molecular Death, Hydrostatic Test, Death Certification.

VII.—FOR DEGREE OF B.D.

I.—FIRST DEPARTMENT.

HEBREW.

FIRST PAPER—THREE HOURS.

I. Point and translate :

ויהי כבלות שלמה לבנות את בית יהוה ואת
 בית המלך ואת כל חשק שלמה אשר חפץ לעשות:
 וירא יהוה אל שלמה ויאמר אליו שמעתי את
 תפלתך ואת תחנוןך אשר התחננתה לפני הקדשתי
 את הבית הזה אשר בנתה לשום שמי שם עד
 עולם והיו עיני ולבי שם כל הימים: ואתה אם
 תלך לפני כאשר הלך דוד אביך בתם לבב ובישר
 לעשות ככל אשר צויתך חקי ומשפטי תשמר:
 והקימתי את כסא ממלכתך על ישראל לעלם כאשר
 דברתי על דוד אביך לאמר לא יכרת לך איש מעל
 כסא ישראל: אם שוב תשבון אתם ובניכם מאחרי
 ולא תשמרו מצותי חקתי אשר נתתי לפניכם
 והלכתם ועבדתם אלהים אחרים והשתחוויתם להם:
 והכרתי את ישראל מעל פני האדמה אשר נתתי
 להם ואת הבית אשר הקדשתי לשמי אשלח מעל
 פני והיה ישראל למשל ולשנינה בכל העמים:
 והבית הזה כל עבר עליו ישם ושרק ואמרו על מה
 עשה יהוה ככה לארץ הזאת ולבית הזה: ואמרו
 על אשר עזבו את יהוה אלהיהם אשר הוציא את
 אבתם מארץ מצרים ויחזיקו באלהים אחרים וישתחוו
 להם ויעבדום על כן הביא יהוה עליהם את כל
 הרעה הזאת:

II. Give the following in idiomatic pointed Hebrew :

In the days of olden time two young men, named Samuel and Jacob, came to plead before the judge. Samuel said : Three years ago I left my native place to travel, and I committed to this Jacob, whom I counted my dearest friend, a choice ring, set with valuable stones, to keep for me ; and now he refuses to restore to me my ring. Then Jacob laid his hand upon his breast, and declared : As I live, I know nothing at all of this ring, whereof my friend Samuel speaks ; surely he is out of his senses. The judge said, Samuel, hast thou any witness who can testify that thou didst give him the ring ? Samuel replied, Alas ! no one was beside us, we were alone in the field, save for an old oak tree, under which we parted from one another. Jacob said, I am ready to swear that I know as little about the oak tree as about the ring. Then said the judge, Samuel, go, bring me a twig from the tree that I may see it, and thou, Jacob, wait here till Samuel returns. So Samuel went away, and in a little while the judge said, What ails Samuel that he tarries so long ? Open the window, Jacob, and see if he is not yet coming back. Jacob said, O, my lord, he cannot be back so soon, the tree is more than an hour's distance from here. Then the judge exclaimed, O thou wicked liar, who wouldest have sworn falsely before the Searcher of hearts ; if thou knowest about the tree, then verily thou knowest about the ring. And he commanded him to restore the ring, and sent him to prison for a year.

SECOND PAPER—THREE HOURS.

I. Isaiah viii. 16—ix. 6.

1. Translate.

2. Parse צור and הָזֶמֶן in v. 16 (accounting for *Scriptio plena*) ; מִנְהָגִים in v. 17 ; הַמִּצְפָּצִים and הַמִּהְרָגִים in v. 19 ; מִנְהָג in v. 22 ; יִגְלוּ in v. 2 ; and הִהָרַת in v. 3.

3. Explain the construction of אֶפְלָה מִנְהָג in v. 22 ; כַּעַת in v. 23 ; הַחֲלָכִים and יִשְׁבֵּי in v. 1 ; כִּי־ in v. 3 ; וְהִיָּתָה in v. 4 ; and וַיִּקְרָא in v. 5.

4. Give a brief connected comment on vv. 19-20, so as to bring out (a) the connexion (if any) with the preceding context ; (b) the persons speaking and addressed ; (c) the syntactical relation of the parts ; and (d) the different explanations that have been given of v. 19 b and v. 20 b.

5. "The hand of the Redactor is evident in vv. 19, 20, 23." Unfold and examine this statement.

6. "What Hosea and Amos unconsciously hold finds expression in vv. 16-18." Expand and criticise this.

7. In ix. 2 what single word instead of **לֹא הָגִיר** would make the first two clauses of the verse synonymous and render the Q're **לֹא** unnecessary?

8. At the beginning of v. 6 it is suggested that **לֹא** is due to dittography—How? And what then would be the reading?

9. The words in v. 5 have been referred to Hezekiah. What objections may be urged against the reference?

II. Psalm civ. 1—15.

1. Translate.

2. Parse **תָּמִיד** in v. 5; **כְּסִיתוֹ** in v. 6; **נִיכֹסִן** in v. 7; **יִשְׁקֶן** in v. 11; **יִתְּנֵהוּ** in v. 12; and **לְהוֹצִיא** in v. 14.

3. Give syntactical notes on **גְּדֻלַּת** in v. 1; **יַעֲמִדוּ** in v. 6; **הָרִים** and **בִּקְעֵת** in v. 8; **יִשְׁמַח** . . . **לְהוֹצִיא** and **לְהַצְהִיב** . . . **יִסְעֵד** in verses 14 and 15.

4. To what does the suffix in **כְּסִיתוֹ** in v. 6, and that in **עֲלֵיהֶם** in v. 12 refer?

5. Remark on **זֶה מִקּוֹם זֶה** in v. 8, and **הִתִּיר שְׂדֵי** in v. 11.

6. Of how many renderings does v. 4 admit? State them, and defend that which you prefer.

NEW TESTAMENT EXEGESIS—THREE HOURS.

1. What information concerning Luke can be gleaned from Scripture? How much of this information is direct, and how much inferential? What assumptions are needed to make the inferences valid?

2. What evidence can be adduced in support of the position that Luke obtained much of his information in Pharisaic circles?

3. On what grounds has the authenticity of the first two chapters of Luke's gospel been challenged? What light is thrown on the subject by the form of the narratives themselves?

4. The section Luke ix. 51—xviii. 14 is supposed by many to be the record of a journey to Jerusalem. What can be said for, and against, this view?

5. Translate Luke ix. 57—62. Comment on the form of this passage and compare it with the corresponding passage in Matthew.

6. Translate Luke xvi. 1—6, and add exegetical notes to bring out the different views that have been taken of the parable.

7. Translate, with exegetical notes, I. Tim. iii. 1—7 and Titus i. 5—14.

APOLOGETICS—THREE HOURS.

1. Mention and criticise the leading definitions of Religion. What benefits have resulted from the comparative study of religions?
2. How have religions been classified? Give a critical estimate of Max Müller's classification.
3. "Revelation is above reason, but not contrary to reason." Estimate the value of this distinction.
4. How has the Teleological argument for the existence of God been criticised (*a*) by Kant, (*b*) by Hegel? Point out the bearing of the theory of Evolution upon this argument.
5. Show how, according to Principal Caird, the philosophy of religion is related to the history of religion.
6. State and criticise the main theories that have been advanced to explain away the resurrection of Jesus. Review the evidence for the fact of the resurrection.
7. Discuss briefly the apologetic value of miracles. Indicate how the function of miracle in revelation is regarded by the older and the newer apologists respectively.
8. Explain and illustrate the general argument of Butler's Analogy. What objections have been brought against it?
9. Summarise and estimate Butler's reasoning in favour of a future life.
10. What evidence may be adduced for the belief that this life is a state of moral discipline?

II.—SECOND DEPARTMENT.

DIVINITY—THREE HOURS.

(No more than TEN questions to be answered.)

1. Analyse the teaching of the Prologue to the Fourth Gospel on the subject of the Logos.
2. What doctrinal errors on the subject of the Person of Christ are guarded against by the following terms in the Symbol of Chalcedon: ἀσιγῆτως, ἀρρηπτως, ἀδιαμετως, ἀχωρίστως. When and how was the Monothelite controversy settled?
3. Give a critical account of the Christology (*a*) of the Lutheran Church, (*b*) of the Reformed Church, (*c*) of Schleiermacher.
4. State and criticise the Kenotic theories of Thomasius and Gess.
5. Define accurately the following Biblical and theological terms: καταλλαγή, λύτρωσις, ἀπολύτρωσις, ἱλασμός, ἀσέβεια, covenant of grace, guilt, satisfaction.
6. What is meant by the offices of Christ? Estimate the value of Ritschl's strictures on the *munus triplex*.

7. Exhibit the Biblical evidence of the sinlessness of Christ, and consider the significance of the fact in its relation to His work. Discuss briefly the place of Christ's active obedience in his work of Atonement.

8. Classify the leading theories of the Atonement, giving reasons for your classification. State and estimate briefly the argument of Anselm in his *Cur Deus Homo*.

9. What is the attitude of Ritschl toward philosophical thought? How far does he avail himself of philosophy? Criticise his position.

10. State Harnack's view of dogma. What, in his opinion, is the relation of the Reformed Churches to the history of dogma?

11. Expound the Ritschlian teaching on the following: (a) "value-judgment": (b) the kingdom of God: (c) the nature of sin: (d) the idea of Righteousness.

12. Describe briefly the Ritschlian Christology. In what sense does Ritschl teach the pre-existence of Christ?

CHURCH HISTORY—THREE HOURS.

1. Describe the ecclesiastical condition of England at the beginning of the sixteenth century. What were the causes that led to the substitution of the Royal Supremacy for that of the Pope?

2. Give an account of (a) The Submission of the Clergy, (b) The Ten Articles, (c) The third Act of Uniformity (1559).

3. Write a short history of (a) The Book of Common Prayer, (b) The Articles of Religion, (c) The rise of Puritanism.

4. State what you know of any *three* of the following persons: More, Cromwell, Cranmer, Ridley, Hooper, Gardiner, Bonner, Bucer.

5. Compare the English Reformation with that of Scotland, and account for the characteristics of each.

6. Outline the life of John Knox, and compare him with Luther and Calvin. Estimate the services of Andrew Melville to the Reformed Church of Scotland.

7. Give an account of (a) The Scottish Confession, (b) The First Book of Discipline, (c) The Second Book of Discipline.

8. Criticise and comment upon the following statements by different writers in regard to the Reformation in Ireland: (1) "It must not be surprising that such unexampled outrage on the feelings of the nation should have produced the most formidable reaction. O'Neil in the north, and Desmond in the south had recourse to arms" (*Brenan*); (2) "I am thoroughly convinced that with the exception of the Archbishop of Dublin (Curwen) not one of Queen Mary's Bishops, nor any one of the clergy, went over to the Reformation" (*Froude*); (3) "Nor ever yet did any man object the want of a competent number of consecrators to an Irish Protestant Bishop" (*Bramhall*); (4) "And yet the indifference of the Irish to speculative opinions, or the ignorance which held them from the movements of the age, might have acquiesced in another transformation: an incurious people might have followed

a clergy counselling submission and conformity, if it had not been that Roman emissaries, continually arriving from Italy and the Spanish Dominions, infused into their minds the mistaken belief that they had always loved the Pope" (*Dixon*).

9. Describe the several parts taken by Browne, Dondall, Bale, and Loftus in the Irish Reformation.

10. What special need was there for the creation of Trinity College, Dublin? Whence came its endowments? and when, and by whom was it founded?

BIBLICAL CRITICISM.

a. TEXTUAL CRITICISM—THREE HOURS.

1. Classify the causes which render the meaning of an ancient writing obscure to an uninitiated modern reader, and enumerate the resources at our command for elucidating it. Hence deduce the relation in which Textual Criticism and Hermeneutics stand to one another.

2. Mention and describe the extra-textual marks found in many MSS., and explain the purposes they were intended to serve.

3. Estimate the value of the evidence for the text of the New Testament afforded by (a) Versions and (b) Citations by early writers.

4. *Arceia sunt quae quameis pluribus probata testibus ex errore librorum orta esse manifestum vel maxime probabile est.*

Probabilis prae ceteris ea est lectio quae reliquarum ansam dedisse vel etiam earum elementa in se continere videtur.

Explain and illustrate by examples these two rules laid down by Tischendorf.

5. On what grounds do most of the recent editors of the New Testament regard with favour the group of MSS. **SBCL**? Is there anything to be said on the other side?

6. Describe the Codex Bezae. What is known of its history? Give some account of recent discussions regarding its text.

7. State and criticise Westcott and Hort's theory of recensions.

b. HERMENEUTICS—THREE HOURS.

1. What is the problem of Hermeneutics? What are the means at our command for solving the problem?

2. Explain the following terms: ἀπαξ λεγόμενα, *Usus Loquendi*, Text, Context, Parallels, Hermeneutics, Heuristics, Exegesis, Allegory.

3. State and criticise the distinction commonly drawn between Hermeneutics and Exegesis.

4. What are the chief differences in point of form between Classic Greek and New Testament Greek? To what psychological basis may these differences be traced? What historical circumstances accentuated the differences?

5. What effect on the vocabulary of ethics did the introduction of Christianity produce?

6. What are the cautions to be observed in the use of parallel passages for hermeneutical purposes?

7. Parables have been divided into Symbolical and Typical. Explain what this means, and give the rules for the interpretation of parables.

8. Compare the School of Alexandria with the School of Antioch. Give the names of the chief representatives, and indicate the distinctive principles of Interpretation, of each school.

XIV.—VACATION EXERCISES, *Etc.*

FOR 1904-5.

HEBREW AND SEMITIC LANGUAGES.

Prizes are offered :

- I. To students of Senior Class of 1903-4, (1) For an Essay on the History of the Old Testament up to the First Century A.D. ; (2) For an Essay on the Book of Amos.
- II. To students of Junior Class of 1903-4,
 1. For an original composition in Hebrew.
 2. For readings in the Old Testament Scriptures.
 3. For *viva voce* repetition of selected passages.

Professions to be given in, in writing, not later than 7th Nov., 1904.

GREEK CLASSES.

Open to any Member of the Greek Class, Sessions 1903-4 and 1904-5.

1. For Attic Prose—Tacitus, *Annals*, I. 8-15 inclusive.
2. To learn by heart Theocritus, *Idyll II*.
3. To learn by heart Demosthenes, *De Corona*, 169-206, from Ἑσπέρα μὲν γὰρ ἦν . . . to δουλευούσῃ τῇ πόλει φέρειν ἀνάγκη, omitting documents.

The same student may enter for all the above competitions. Several prizes may be given for each competition. Junior students will be judged on a more lenient standard.

The prose to be sent in by 24th October, 1904.

HUMANITY CLASS.

Prizes will be given for Vacation Exercises as follows :

- I. Open to all members of the Senior or Honours Class of 1903-1904 :—
To learn by heart Horace, *Odes*, Book III.
- II. Open to all members of the Senior or Honours Class of 1903-1904 :—
For translation into Latin Prose—Macaulay's *England*, Chapter I., from beginning to "brought to a decisive crisis."

The examination in I. will be held early in November, 1904. The essays must be sent in to the Professor on or before 1st November. Each exercise must bear a motto, and be accompanied by an envelope bearing the same motto, with the writer's name inside, together with a statement that the exercise is his own unaided work.

CLASS OF BOTANY.

A prize is offered to matriculated students who have passed through the Class of Botany in the University or Queen Margaret College, for the best and approved Herbarium of Scottish Phanerogamous and Vascular Cryptogamous Plants, to be named after Hooker's *Students' Flora of the British Islands*. The specimens must have been collected upon the mainland of Scotland, or upon the Scottish Islands, between 20th April, 1903, and 15th October, 1904, and must have affixed, in addition to the name, the date and locality of collection.

The Herbaria must be sent, addressed to the Professor of Botany, to the University of Glasgow, on or before 15th October, 1904, and with each a sealed note bearing a motto outside, and containing the name of the competitor, with a declaration that the plants in the collection have all been gathered by himself in Scotland, and within the period above stated, and that they have been named by him without assistance, save that derived from books on Herbaria.

The collections must be accompanied by a numbered and arranged list of the plants contained in them.

Students of the first year in Botany are informed that a similar prize will be offered in October, 1905, and are advised to begin collecting for that competition in April, 1904.

MORAL PHILOSOPHY.

A sum of five guineas, given by Mrs. John Caird, will be awarded in prizes to the students who, entering the Honours Class for the first time in session 1904-5, gain the highest marks in an examination on (1) Aristotle's *Ethics*, (2) Spinoza's *Ethics*, and (3) Green's *Prolegomena to Ethics*.

XV.—FINANCIAL STATEMENT OF THE UNIVERSITY FOR 1902-1903.

INCOME.

I. Teinds, Feu-duties, Ground Annuals, Dividends, and Interest (including Queen Margaret College, £839 9s. 7d.), -				£12,766	1	0 $\frac{1}{4}$
II. Parliamentary Grant—						
(a)	Under Universities Act,			£12,180	0	0
(b)	Under Education and Local Taxation Act,			8,700	0	0
					20,880	0 0
III. Special Endowments—						
(a)	Chairs,			£1,981	0	3
(b)	Lectureships,			356	10	0
(c)	Demonstratorships, etc.,			462	7	8
					2,799	17 11
IV. Class Fees—						
(a)	Constituting the Fee Fund (including Queen Margaret College, £2,510 11s. 0d.),			£20,353	7	6
(b)	Other Classes,			1,204	5	6
					21,557	13 0
V. Other Fees—						
(a)	Matriculation (including Queen Margaret College, £363 16s.),			£2,187	10	0
(b)	Examination and Graduation (including Queen Margaret College, £810 6s. 6d),			5,056	18	6
(c)	Registration (including Queen Margaret College, £43),			261	0	0
(d)	Recognition towards expenses of inspection,			31	10	0
					7,536	18 6
VI. Library—						
(a)	Subscriptions,			£64	1	0
(b)	Revenue of Legacy Funds,			58	0	0
(c)	Annual Grant from M'Callum Fund for Celtic Library,			10	0	0
(d)	Carnegie Trust,			750	0	0
(e)	Arrears of Interest on Euing Fund,			60	0	0
					942	1 0
					£66,482	11 5 $\frac{1}{4}$
					1,819	19 6 $\frac{1}{2}$
					£68,302	10 11 $\frac{3}{4}$
	Deficit,					

EXPENDITURE.

I. University Court and Senate—

(a) Secretary of University Court (including outlays, £32 13s. 2d.), .	£332 13 2	
(b) Clerk of Senate,	262 10 0	
(c) Assistants to Clerk of Senate (including incidental expenses, £85),	682 1 8	
		£1,277 4 10

II. General Council—

(a) Registration,	£103 0 0	
(b) Clerk,	100 0 0	
(c) Printing and Outlays, per Clerk,	128 2 8	
		331 2 8

III. Business—

(a) Factors (including outlays, £78 0s. 11d.), .	£718 15 11	
(b) Auditors,	31 10 0	
(c) Law Agents,	57 5 7	
		807 11 6

IV. Ministers' Stipends,	1,626 14 6
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V. Pension Fund,	4,000 0 0
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VI. Salaries—

(a) Principal,	£1,100 0 0	
(b) Professors under Ordinance No. 25,	23,741 7 10	
(c) Other Professors,	2,092 16 6	
(d) Lecturers (including £1,650 at Queen Margaret College),	4,735 3 1	
(e) Assistants and Demonstrators (including £675 at Queen Margaret College),	6,692 17 2	
(f) Examiners (including expenses, £331 6s. 7d.),	1,599 7 7	
(g) Reports on Applications for Recognition,	17 17 0	
		39,979 9 2

VII. Library,	2,620 0 5
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VIII. Museum,	226 16 7
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IX. Observatory,	336 8 3½
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X. University Buildings—

(a) Maintenance and Upkeep of Grounds, .	£4,361 16 0
(b) Lighting,	646 12 9
(c) Heating and Ventilating,	1114 0 5
(d) Water,	58 11 5
(e) Pathological Institute at Western Infirmary	331 19 10
(f) Telephone Rentals,	31 5 0

6,544 5 5

Carry forward. £57,749 13 4½

Brought forward,	£57,749 13 4½
XI. Insurance,	360 15 3
XII. Service and Cleaning,	1,341 12 10
XIII. Class Expenses, Apparatus, etc.—	
(a) Prizes and Medals,	£295 18 9
(b) Lantern Slides,	203 14 3
(c) Apparatus for Laboratories, etc.,	1,614 1 7
(d) Class Expenses,	2,485 1 9
	<hr/> 4,598 16 4
XIV. Printing, Stationery, and Advertising (including Prize Lists of 1777-1832, £60),	1,300 13 8
XV. Chapel,	174 10 5
XVI. Bursaries,	172 5 7
XVII. Public Burdens, Taxes, etc. (including £21 to Glasgow Police),	1,166 11 0¼
XVIII. Taxes, Repairs on Buildings, Lighting, Heating, Service, etc., at Queen Margaret College,	959 14 11
XIX. Students' Representative Council,	20 0 0
XX. Graduation Luncheon and Conversazione,	143 0 2
XXI. Visit of the King,	128 17 9
XXII. Grant to Athletic Club,	100 0 0
XXIII. Miscellaneous,	85 19 8
	<hr/> £68,302 10 11¾

CLASS FEES.

I. Faculty of Arts—

Humanity,	£984 18 0
Greek,	351 15 0
English,	645 15 0
French,	249 18 0
German,	79 16 0
Italian,	9 9 0
Hebrew,	152 5 0
Logic,	642 12 0
Moral Philosophy,	626 17 0
Political Economy,	179 11 0
Education,	330 15 0
Philosophy of Law,	3 3 0
Mathematics,	1,035 6 0
Natural Philosophy,	630 0 0
Chemistry,	235 4 0
Botany,	115 10 0
Zoology,	63 0 0
Astronomy,	6 6 0
History,	501 7 6
Constitutional Law,	93 9 0
Roman Law,	143 10 0

£7,080 6 6

II. Faculty of Science—

Political Economy,	£6 6 0
Astronomy,	8 8 0
Engineering,	1,036 7 0
Naval Architecture,	180 12 0
Geology,	78 15 0
Mathematics,	287 14 0
Natural Philosophy,	652 1 0
Chemistry,	658 7 0
Botany,	110 5 0
Zoology,	44 2 0
Physiology,	29 8 0
Anatomy,	2 2 0
Mining,	9 9 0

3,103 16 0

III. Faculty of Medicine—

Botany,	£872 11 0
Zoology,	819 0 0
Physics,	404 5 0
Chemistry,	1,098 6 0
Anatomy,	1,571 17 0
Physiology,	688 16 0
Materia Medica,	604 16 0
Pathology,	731 17 0
Forensic Medicine,	418 19 0

Carry forward, £7,210 7 0 £10,184 2 6

Brought forward,	£10,184	2	6
Faculty of Medicine— <i>continued</i>	£7,210	7	0
Surgery,	853	2	6
Clinical Surgery,	67	17	8
Practice of Medicine,	321	6	0
Clinical Medicine,	188	7	10
Midwifery,	510	6	0
Insanity,	285	12	0
		9,436	19 0
IV. Faculty of Law—			
Law,	£327	1	6
Conveyancing,	260	8	0
Constitutional Law and History,	42	0	0
Civil Law,	46	4	0
Jurisprudence,	28	7	0
Public International Law,	40	19	0
International Private Law,	63	0	0
Political Economy,	3	3	0
Forensic Medicine,	53	11	0
Mercantile Law,	174	6	0
		1,038	19 6
V. Faculty of Theology—			
Divinity,	£166	19	0
Church History,	107	2	0
Biblical Criticism,	122	17	0
Hebrew (see under Faculty of Arts),	—	—	—
		396	18 0
VI. Non-qualifying Classes,		551	2 0
		£21,608	1 0
Deduct Fees returned,		50	8 0
		£21,557	13 0

APPENDIX—I.

LIST OF MEMBERS

INCLUDED IN

THE REGISTER

OF

THE GENERAL COUNCIL

FOR THE YEAR COMMENCING 1st JANUARY, 1904,

WITH ABBREVIATED ADDRESSES, ETC.

N.B.—So far as information has been available down to the time of publishing the Calendar, addresses, etc., have been corrected, and names of deceased Members removed. Members are requested to intimate to the Registrar any change of designation (i.e. profession or calling), or of permanent address. Representatives of deceased Members are also requested to make intimation, in order that the names of such Members may be removed.

- Abbott, John C., M.B., C.M., 159 Lichfield rd., Aston, Birmingham
 Abdurahman, Abdullah, M.B., C.M., Cape Town, S. Africa
 Abercrombie, Peter H., M.D., C.M., 10 Coburg place, London, W.
 Abercrombie, Ralph, M.A., minister, Goole
 Abernethy, Wm., M.A., tch., Kirkhill, Penicuik
 Ackland, Miss Dorothy, M.A., stud., 80 Langside av., Glasgow
 Adam, Alex., M.B., C.M., Glasgow
 Adam, Basil J., M.B., C.M., Beaufort, Victoria
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- Wilson, Wm., M.D., C.M., 10 Eglinton st., Irvine
- Wilson, Wm. B., clergyman, Asylum, Gartnavel
- Wilson, Wm. W., M.A., min., Savoch, Auchnagatt
- Wilson, Wm. M., M.B., C.M., Tientsin, N. China
- Wilson, Wm. M., M.B., C.M., 32 Grafton sq., Glas.
- Wilson, Wm. R., B.Sc., electr., 5 Meadowbank cr., Partick
- Wilson, Wm. R., B.Sc., C.E., Thorncliff, Greenock
- Wilson, Wm. S. B., M.A., stud., Burngrange, Motherwell
- Wilson, Wm. W., M.B., Ch.B., Carradale, Coatbridge
- Wingate, Hamilton M., B.Sc., chem., Melbourne
- Wingate, Thos. P., B.Sc., lieut., c/o Cox & Co., 17 Charing Cross, London, S.W.
- Wingate, Walter, M.A., teacher, St. John's sch., Hamilton
- Wingate, Wm., minister, 100 Talbot rd., Baywater, London
- Winning, Isaac, M.A., tch., Valparaiso, Chili
- Winning, Thos. M.A., stud., 2 Nursery st., Kilm'rnk
- Winning, Walter, M.A., 165 Main st., Rutherglen
- Wiseman, William R., M.A., tch., Park Villa, Muirhead, Chryston
- Wiseman, Wm. R., M.A., stud., 24 Sutherland tee., Glasgow
- Wishart, Geo. B., M.A., tch., 10 Regent place, Shawlands, Glasgow
- Wishart, Hugh R., M.A., tch., Millbrae, Millport
- Wishart, Jas., B.D., minister, Irvine
- Wishart, John, M.A., tch., 8 Gower st., Paisley rd., Glasgow
- Wishart, Robt. S., M.A., tch., Meigle cot., Stepps
- Wolfe, John Reissberg, M.D., 53 Collins street, Melbourne
- Wolverson, Fred., M.B., C.M., Walsall wood, Walsall

- , Alex., B.Sc., stud., Woodlands, Partick
 , Jas. B., B.D., min., St. Paul's, Dundee
 , Percival J., M.A., teacher, N. Congregational
 school, Silcoates hall, Wakefield
 , Robt. T., M.B., C.M., 6 Blantyre st., Glas.
 burn, Alex., B.Sc., C.E., Ry. Co., Calcutta
 s, Thomas, M.D., Parsonstown
 side, David, B.D., minister, 1 Colebrooke
 terrace, Glasgow
 ie, Wm., M.A., carting contractor, 42 Mont-
 gomerie drive, Glasgow
 man, Harold, B.Sc., eng., 5 Hanover ter., Glas.
 man, Robt. E., B.Sc., eng., 5 Woodside ter.,
 Glasgow
 bet, James R., M.B., C.M., 56 Upper
 ennington lane, London, S.E.
 on, Albert S., M.B., C.M., Whinstone, Tollcross
 erspoon, James, B.D., minister, Allar's
 manse, Hawick
 erspoon, Jas. A., M.A., tch., 17 Elder ter.,
 Airdrie
 erspoon, John, M.B., C.M., Seattle, Wash-
 ington, U.S.A.
 erspoon, John, M.B., Ch.B., 144 Holland st., Gl.
 William, M.A., min., Orritor, Cookstown
 nt, Alexander, M.A., minister, Musselburgh
 nt, Chas. M., M.A., schoolmaster, Lucton
 school, Kingsland
 nt, Dan., M.A., writer, 22 Abbey st., Paisley
 nt, Geo., M.A., tch., 22 Eaglesham st., Glas.
 nt, Hugh, writer, 39 So. Bridge, Edinburgh
 nt, Hugh P., M.B., Ch.B., 8 Douglas st., Glas.
 nt, John, M.B., C.M., 3 Victoria pl., Shawlands
 nt, John C., M.B., C.M., 13 Elderslie st., Glas.
 nt, John M., M.A., tch., 234 Lincoln pl., Partick
 nt, John S., M.B., C.M., 159 Manchester road,
 radford
 nt, Thos., M.A., min., 10 Gladstone pl., Stirling
 nt, Thos., M.B., C.M., 8 Corunna st., Glasgow
 nt, Thomas G., LL.B., stud., 11 Westbourne
 terrace, Glasgow
 nt, William, minister, Lochee
 nt, Wm., M.B., Ch.B., 23 W'stminst'r ter., Glas.
 Otho F., M.D., Leamington
 nt, Adam Howie, M.D., C.M., 93 Manchester
 reet, Oldham
 , Alex., M.A., minister, 1 Mardale crescent,
 Edinburgh
 , Alex., M.B., C.M., Ixelle, Fortis Green, Lond.
 , And., M.D., C.M., 46 Holland Park avenue,
 London, W.
 , James, M.D., C.M., 64 Kelvingrove street,
 Glasgow
 , Miss Jessie R., M.A., tch., 64 Kelvingrove
 , Glasgow
 , John, M.B., C.M., Allanhill, Kilmarnock
 , Rich. J., M.D., C.M., Mashonaland, So. Africa
 , William, M.A., teacher, Rendall, Kirkwall
 , Wm. R., M.B., Ch.B., 64 Kelvingrove st.,
 Glasgow
 , Wm. S., B.L., writer, 82 W. Nile st., Glas.
 e, John, B.L., writ., Bencloich, Lennoxtown
 e, John, M.D., C.M., 262 Beverley road, Hull
 e, William, M.D., C.M., Kirkby Lonsdale
 e, William, M.A., minister, 110 Dunnikier
 pad, Kirkcaldy
 ham, Geo., M.P., 35 Park Lane, London, W.
 r, Wm., M.B., Ch.B., Zambesi cott., H'milt'n
 Wytt, William H. de, M.B., C.M., 9 Viewforth
 gardens, Edinburgh
 Yair, David W., minister, Firth, Orkney
 Yamamoto, Nagakata, B.Sc., naval architect,
 Honjoku, Tokyo
 Yarrow, Henry, M.B., C.M., 7 Lauriston pl., Glas.
 Yeaman, George, M.D., 6 India street, Glasgow
 Yearnshaw, Herbert, M.B., C.M., Daisy Bank,
 Weaste, Manchester
 York, William, writer, 180 Hope street, Glasgow
 Young, Alex. F., B.L., law clk., 5 Doune ter. G1
 Young, Alex. G., M.D., C.M., Castle Bytham, Lincs
 Young, Alf. A., M.A., M.B., C.M., 10 Ham. pk. tr., G1
 Young, Archibald, M.A., minister, 55 Osborne
 place, Aberdeen
 Young, Arch., M.A., stud., Kinture, Port Ellen, Islay
 Young, Archibald, B.Sc., M.B., C.M., 34 Berkeley
 terrace, Glasgow
 Young, Chas. A., M.A., stud., 4 Clarendon pl., Stirl'g
 Young, Daniel L., M.A., manuf., William st., Gl.
 Young, David, M.D., C.M., Linton Villa, Park'd
 Young, David, M.B., C.M., Greenbank, Partick
 Young, David, M.A., min., 2 Annfield ter., Partick
 Young, Dav., B.D., min., Knoxland, Dumbarton
 Young, David J., M.B., Ch.B., Barrhead
 Young, Eben. D., M.A., W.S., 13 Frederick st., Edin.
 Young, Frank S., M.A., acct., Kansas, U.S.A.
 Young, Geo. G. B., M.A., tch., 397 Gt. Western
 road, Glasgow
 Young, Geo. M., B.Sc., eng., 268 Kenmure st.,
 Pollokshields
 Young, Henrietta F., M.B., Ch.B., Parkb'rn, Kils'th
 Young, Homer, M.A., min., F.C. manse, Gourrock
 Young, Hugh C. T., M.D., C.M., Sydney
 Young, James, M.A., tch., South Schoolhouse,
 Biggar
 Young, James, M.D., C.M., Cloud's Hill House
 St. George, Bristol
 Young, James, minister, Dyrock, Prestwick
 Young, Jas. M.A., min., N. Parishmanse, Paisley
 Young, Jas. J. T., M.B., C.M., 1 Maxwell dr., Glas.
 Young, Jas. M., M.B., C.M., Herbertfield, Hamilton
 Young, John, M.B., C.M., The Thorn, Earlston
 Young, John, M.D., 91 Up. Hanover st., Sheffield
 Young, John, minister, Greenock
 Young, John, M.A., B.Sc., 61 Clyde street, Glasgow
 Young, John, M.B., C.M., 236 Whitehill st., Glas.
 Young, John, M.A., minister, Greenfield, Iowa
 Young, John, M.B., C.M., Bonnybridge
 Young, John, M.B., Ch.B., 20 St. Vincent cr., Glas.
 Young, John, B.D., minister, Wbithorn
 Young, John, M.B., Ch.B., 38 Drummond pl., Edin.
 Young, John C., M.A., M.B., C.M., Aden, Arabia
 Young, John D., M.D., Ch.B., 109 Whitehill st., Glas.
 Young, John F., M.A., stud., 19 Priory pl., Perth
 Young, John G., B.Sc., eng., 21 Montgomerie dr.,
 Glasgow
 Young, Peter T., LL.B., stud., 13 Kew terrace, Glas.
 Young, Robert Arthur, LL.B., advocate Chicago
 Young, Robert B., M.A., M.B., C.M., 8 Crown
 gardens, Glasgow
 Young, Robt. B., M.A., tch., 15 Briarbank terrace,
 Edinburgh
 Young, Robert C., M.A., stud., Southend, Camp-
 beltown
 Young, Robt. H., M.B., C.M., Tsomo, Transkei
 Young, Robt., M.A., tch., Academy, Kilmarnock

- Young, Robert R., M.D., C.M., 2 Melbourne street,
 Leicester
 Young, Robert T., M.A., probationer, Oakwood,
 Bridge-of-Allan
 Young, Thos., M.D., C.M., 82 Butler st., M'chester
 Young, Thos. C., LL.B., writer, 93 West Regent
 street, Glasgow
 Young, Watson, M.B., Ch.B., Parkburn, Kilsyth
 Young, William, M.A., minister, Baldernock
 Young, Wm., M.B., C.M., 32 Lilybank gardens,
 Hillhead
 Young, Wm. G., M.D., 22 Monteith row, Glasgow
 Young, William, minister, Barrhead
 Young, William M., M.A., M.D., C.M., 171 Wood-
 house lane, Leeds
 Young, William R., M.A., tch., Pub. sch., Larbert
 Young, Wm. S., M.D., C.M., Helensburgh
 Younger, Arch. S., B.Sc., eng., 8 Walmer crescent,
 Glasgow
 Younger, John, B.Sc., mech. eng., 88 Albert road,
 Crosshill
 Younger, Robt. T., LL.B., advocate, 34 Gt. King st.,
 Edinburgh
 Yuill, Isobel (Mrs. Chas. S. L. MacFarlane), M.A.,
 14 Oalmar rd., Denmark Hill, London
 Yuill, John, M.D., C.M., 160 Alma st., Birmingham
 Yuille, Geo. S., B.D., prob., Roslyn, Bothwell
 Yuille, James, minister, Peterhead
 Zahm, Frank B., B.Sc., naval arch., New York
 Zinkeisen, Wm., B.Sc., mine manager, Cali-
 fornia
 Zuill, John, M.A., M.B., C.M., Kincardine-on-Forth
 Zuill, Robert, M.B., C.M., Carnock, Dunfermline

APPENDIX II.

EXTRA-ACADEMICAL TEACHING.

N.B.—Every application for recognition must be accompanied by a payment to the University Factors, Messrs. Hill & Hoggan, 194 Ingram Street, Glasgow, of a fee of £5 5s., to be placed to the credit of a fund for defraying the cost of investigation by experts of the fitness of the teacher applying, and of the accommodation, apparatus, and teaching appliances at the disposal of the teacher.

The following regulations for the recognition of Extra-Academical Teaching under Ordinances Nos. 14, 12, and 23, were adopted by the University Court on 14th June, 1894:—

IN THE CASE OF INDIVIDUAL EXTRA-ACADEMICAL TEACHERS.

I. Every application shall be made to the Secretary of the University Court and shall supply the following information:—

- (a) The registrable or other qualification or qualifications of the applicant.
- (b) A statement of his opportunities of studying the subject and the length of time devoted thereto.
- (c) A statement of his experience in teaching the subject.
- (d) A note of any of his published articles or works on the subject.
- (e) The appointments which he holds as a teacher of the subject in which he requests recognition, and a statement whether the course for which recognition is sought has previously been conducted by him, and if so, for how long. If the applicant is a teacher in a Medical School, College of Science, or other similar Institution, the most recent issue of the Calendar of such School, College, or Institution, should be forwarded.
- (f) The number of meetings to which the course extends, whether each meeting is for one hour or longer, and a statement of the proportion of the course to be devoted to lectures, practical demonstrations, examinations and tutorial work. In the case of a practical course, information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the teacher for whom recognition is sought, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects treated in the course and of the books proposed for the use of students should also be sent in every case.

- (g) The hour or hours at which the course is conducted.
- (h) The accommodation, apparatus, and teaching appliances provided for the class.
- (i) The teaching or examining bodies which have recognized his course.

II. In the case of an applicant conducting courses in Glasgow or its neighbourhood an inspection shall be made of his accommodation and appliances for teaching.

III. Every Extra-Academic Teacher in Glasgow whose course has been recognized under Ordinance No. 12 or Ordinance No. 14 shall, at the commencement of each session, call the attention of his whole class to the provisions of the Ordinance as to enrolment and payment of fee at the University by all students who desire afterwards to graduate there; he shall also call attention to the University requirements as to preliminary examination (more stringent in the case of medical students than the minimum required by the General Medical Council); and shall advise any students looking forward to a University degree to procure from the Matriculation Office a copy of the syllabus of regulations applicable to their course.

IV. Every recognized Extra-Academical Teacher shall annually within one month of the close of the session furnish the University Court with a return of

- (a) The number of students who have attended the recognized course or courses, in such manner as to qualify *pro tanto* for graduation in a Scottish University.
- (b) Any change that may have been made in the accommodation or appliances provided.
- (c) A statement showing, for the year next ensuing, the number of meetings to which the course extends, whether each meeting is for one hour or longer, and the proportion of the course to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of a practical course information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether, or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the recognized teacher, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects to be treated in the course, and of the books proposed for the use of students, should also be sent.

V. The certificate of attendance granted by Extra-Academical Teachers should in all cases state the number of lectures or meetings for practical instruction in the course, the number of occasions on which the student was present, the fee charged, and bear that the student has duly performed the work of the class.

VI. Every candidate not being a matriculated student attending the course of an Extra-Academical Teacher in Glasgow, recognized for the purposes of graduation in Medicine or Pure Science, must at the

commencement of each year enrol his name in a book kept at the University for that purpose, paying a fee of the same amount as the matriculation fee, and having in respect thereof a right to the use of the University Library. (Ord. No. 14, § VIII. 5 ; Ord. No. 12, § V.)

VII. The fee for attendance for the purposes of graduation on the courses of instruction of an Extra-Academical Teacher in Glasgow shall not be less than the fee for the corresponding University Class. (Ord. No. 14, § VIII. 6 ; Ord. No. 12, § IV. 2 ; Ord. No. 23, § IV. 2.)

VIII. The Court will not in any case recognize for the purposes of graduation in Medicine the course of any teacher who teaches at the same time more than one of the subjects, except where the applicant is a professor or teacher of any endowed public college or institution, who, by the terms of his appointment, is required to teach more than one of the subjects, and in that case recognition can be granted in one subject only. (Ord. No. 14, § VIII. 7.)

IX. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

X. The recognition of any teacher who fails to furnish the information required in terms of Regulation IV., or a sufficient explanation relative to such failure, or who has ceased for the period of two consecutive sessions to teach the subject in which he is recognized, shall *ipso facto* terminate.

IN THE CASE OF SCHOOLS OR INSTITUTIONS.

I. Every application shall be made to the Secretary of the University Court, and shall supply the following information :—

- (a) A statement of the number of teachers and a detailed syllabus of the curriculum courses proposed to be given, or, in the case of practical classes, information of a similar kind.
- (b) The number and duration of lectures proposed to be given and the number of examinations, whether written or oral, deemed necessary, or in the case of a practical class, information of a similar kind. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).
- (c) The hours of lectures.
- (d) The teaching or examining bodies which have already recognized the curriculum or certificate of the school or institution making application.
- (e) A statement as to the accommodation, apparatus, and appliances at the disposal of the teachers in the school or institution making application.
- (f) A note of the fees proposed to be charged.

II. The Court shall, if it thinks fit, cause an inspection to be made of the accommodation, apparatus, and teaching appliances provided by the school or institution making application.

III. Every recognized school or institution shall annually within one month of the close of the session furnish the University Court with a return of

- (a) The number of students who have attended the recognized school or institution in such manner as to qualify *pro tanto* for graduation in the University.
- (b) Any change that may have been made in the accommodation or appliances provided.
- (c) A statement showing, for the year next ensuing, the number of meetings to which the courses extend, whether each meeting is for one hour or longer, and the proportion of the courses to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of practical courses information should be given as to the manner of conducting them, the number of examinations, oral or written, and whether, or to what extent, lectures or tutorial work form part of the courses. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).

IV. The certificates of attendance granted by recognized schools or institutions should in all cases state the number of lectures or meetings for practical instruction in the courses, the number of occasions on which the student was present, the fees charged, and bear that the student has duly performed the work of the classes.

V. The fees for attendance for the purposes of graduation on the courses of instruction in a recognized school or institution shall not be less than the fees for the corresponding University classes. (Ord. No. 14, § VIII. 6; Ord. No. 12, § IV. 2; Ord. No. 23, § IV. 2.)

VI. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

LIST OF EXTRA-ACADEMICAL TEACHERS.

List of Extra-Academical Teachers recognized by the University Court of the University of Glasgow, for the purpose of Graduation in Medicine and Science, in terms of Ordinances of the Universities Commissioners (1858 and 1889), the names of those who are recognized for Graduation in Science being printed in *italics*.

19 April, 1876,	Dr. James Gow Black, Otago,	<i>Chemistry.</i>
"	Miller Coughtrey, M.B., Otago,	<i>Anatomy.</i>
7 Nov., 1876,	John Dougall, M.D., Glasgow,	<i>Materia Medica.</i>
12 Sept., 1877,	A. M. Buchanan, M.D., Glasgow,	<i>Anatomy.</i>
21 Dec., 1880,	William Craig, M.D., Edinburgh,	<i>Materia Medica and Therapeutics.</i>
"	John Barlow, M.D., Glasgow,	<i>Physiology.</i>
24 May, 1881,	Byrom Bramwell, M.D., Edinburgh,	<i>Practice of Medicine.</i>
22 July, 1885,	Reginald W. Phillips, B.A., B.Sc., University Coll., Bangor,	<i>Botany.</i>
4 Oct., 1887,	Claud M. Thompson, University College, Cardiff,	<i>Chemistry.</i>

4 Oct., 1887.	W. Newton Parker, University College, Cardiff,	<i>Zoology.</i>
27 Feb., 1890,	James Robertson Watson, M.A., Glasgow,	<i>Chemistry and Practical Chemistry.</i>
„	Philip J. White, M.B., University College, Bangor,	<i>Zoology.</i>
5 Jan., 1892,	T. W. Bridge, M.A., Mason Science Coll., Birmingham,	<i>Zoology.</i>
28 April, 1892,	James Swanson, M.A., M.B., C.M., St. Mungo's Coll., Glasgow,	<i>Botany.</i>
23 Feb., 1893,	James Blyth, M.A., Glasgow and West of Scotland Technical College,	<i>Physics.</i>
„	J. W. Carr, M.A., University College, Nottingham,	<i>Botany.</i>
27 April, 1893,	G. G. Henderson, D.Sc., Glasgow and West of Scotland Technical College,	<i>Chemistry.</i>
20 July, 1893,	J. Berry Haycraft, M.D., University College, Cardiff,	<i>Physiology.</i>
9 Nov., 1893,	A. P. Aitken, D.Sc., Edinburgh,	<i>Chemistry.</i>
„	J. F. King, Edinburgh,	<i>Chemistry.</i>
„	D. N. Paton, M.D., Edinburgh,	<i>Physiology and Practical Physiology.</i>
„	A. Bruce, M.D., Edinburgh,	<i>Pathology and Practical Pathology.</i>
„	F. W. N. Haultain, M.D., Edinburgh,	<i>Midwifery.</i>
„	R. M. Murray, M.B., Edinburgh,	<i>Midwifery.</i>
„	G. A. Gibson, M.D., Edinburgh,	<i>Practice of Medicine.</i>
„	R. W. Philip, M.D., Edinburgh,	<i>Practice of Medicine.</i>
14 Nov., 1893,	R. B. Ness, M.A., M.B., Anderson's College, Glasgow,	<i>Materia Medica and Therapeutics, and Pract. Pharmacy.</i>
„	Dawson Turner, M.D., Edinburgh,	<i>Physics.</i>
8 Feb., 1894,	J. W. B. Hodsdon, M.D., Edinburgh,	<i>Surgery.</i>
„	H. E. Clark, M.R.C.S., Glasgow,	<i>Surgery.</i>
14 June, 1894,	George T. Beatson, M.D., Glasgow,	<i>Surgery.</i>
„	Francis M. Caird, M.B., C.M., Edin.,	<i>Surgery.</i>
„	Alexander James, M.D., School of Medicine, Edinburgh,	<i>Practice of Medicine.</i>
„	William Russell, M.D., School of Medicine, Edinburgh,	<i>Pathology and Practical Pathology.</i>
„	Henry Alexis Thomson, M.D., Minto House, Edinburgh,	<i>Surgery.</i>
2 Aug., 1894,	George B. Todd, M.B., C.M., Anderson's College, Glasgow,	<i>Zoology.</i>
13 Dec., 1894,	R. Stanfield, A.R.S.M., A.M. Inst. C.E., Heriot Watt Coll., Edin.,	<i>Mechanical Engineering.</i>
„	John Gibson, Ph.D., Heriot Watt College, Edinburgh,	<i>Chemistry and Chemical Laboratory.</i>

14 Feb., 1895,	A. H. Trow, B.Sc., University College, Cardiff,	<i>Botany.</i>
„	Malcolm Laurie, B.A., D.Sc., F.R.S.E., St. Mungo's College, Glasgow,	<i>Zoology.</i>
12 Dec., 1895,	Peter Bennett, Anderson's College Medical School, Glasgow,	<i>Physics.</i>
9 Jan., 1896,	Charles Workman, M.D., Royal Infirmary, Glasgow,	<i>Pathology and Practical Pathology.</i>
18 June, 1896,	John Edgar, M.A., B.Sc., M.B., Anderson's College Medical School, Glasgow,	<i>Midwifery.</i>
„	George A. Gibson, M.A., Glasgow and West of Scotland Technical College,	<i>Mathematics.</i>
9 July, 1896,	Alexander MacLay, B.Sc., C.E., Glasgow and West of Scotland Technical College,	<i>Engineering Drawing and Design.</i>
12 Nov., 1896,	John Lindsay Steven, M.D., Glasg.,	<i>Practice of Medicine.</i>
„	Francis G. Baily, M.A., Heriot Watt College, Edinburgh,	<i>Physics and Electrical Engineering.</i>
6 May, 1897,	Richard J. A. Berry, M.D., F.R.C.S.E., New School of Medicine, Edinburgh,	<i>Anatomy.</i>
9 June, 1898,	John Carswell, L.F.P.S.G., L.R.C.P.E., Anderson's College Medical School, Glasgow,	<i>Mental Diseases.</i>
9 June, 1898,	J. R. Whitaker, M.B., Surgeon's Hall, Edinburgh,	<i>Anatomy and Practical Anatomy.</i>
10 Nov., 1898,	Hugh Galt, M.B., C.M., St. Mungo's College,	<i>Forensic Medicine and Public Health.</i>
„	Robert A. Fleming, M.D., School of Medicine, Edinburgh,	<i>Practice of Medicine.</i>
13 July, 1899,	A. L. Selby, M.A., University Coll. of South Wales, Cardiff,	<i>Physics.</i>
„	D. R. Paterson, M.B., University Coll. of South Wales, Cardiff,	<i>Practical Pharmacy.</i>
9 Nov., 1899,	Theodore Shennan, M.D., School of Medicine, Edinburgh,	<i>Pathology.</i>
26 April, 1900,	H. Harvey Littlejohn, M.A., M.B., B.Sc., Edinburgh,	<i>Medical Jurisprudence and Public Health.</i>
„	Carstairs C. Douglas, B.Sc., M.D., Anderson's College Medical School, Glasgow,	<i>Medical Jurisprudence and Public Health.</i>
10 July, 1900,	J. C. Beattie, D.Sc., South African College, Cape Town,	<i>Natural Philosophy.</i>
„	P. D. Halm, Ph.D., South African College, Cape Town,	<i>Chemistry.</i>
8 Nov., 1900,	R. S. Thomson, B.Sc., M.D., Anderson's College Medical School, Glasgow,	<i>Practice of Medicine.</i>

14 Mar., 1901,	John W. Paterson, West of Scotland Agricultural College,	Agricultural Chemistry.
„	A. N. M'Alpine, West of Scotland Agricultural College,	Agricultural Botany.
„	J. J. F. X. King, West of Scotland Agricultural College,	Agricultural Entomology.
„	John R. M'Call, West of Scotland Agricultural College,	Veterinary Hygiene.
3 Oct., 1901,	Alexander Macphail, M.B., St. Mungo's College,	Anatomy.
14 Nov., 1901,	T. K. Monro, M.A., M.D., St. Mungo's College,	Practice of Medicine.
1 May, 1902,	Marion T. Newbiggin, D.Sc., Medical College for Women, Edinburgh,	Zoology.
10 July, 1902,	Harry Bamford, M.Sc., West of Scotland Agricultural College,	Agricultural Engineering.
11 Dec., 1902,	Daniel Burns, Glasgow and West of Scotland Technical College,	Geology.
18 June, 1903,	Magnus Maclean, M.A., D.Sc., Glasgow and West of Scotland Technical College,	Electrical Engineering.
„	W. H. Watkinson, M.I.M.E., Glasgow and West of Scotland Technical College,	Mechanical Engineering.
„	John G. Longbottom, A.R.C.S., Glasgow and West of Scotland Technical College,	Civil and Mechanical Engineering.
„	Hamilton C. Marr, M.D., F.F.P.S.G., St. Mungo's College, Glasgow,	Insanity.
„	James H. Nicoll, M.B., F.F.P.S.G., Anderson's College Medical School, Glasgow,	Surgery.
„	Archibald A. Scot Skirving, C.M.G., M.B., M.R.C.S. (Eng.), F.R.C.S. (Edin.), 27 Nicolson Square, Edinburgh, and School of Medicine of the Royal Colleges, Edinburgh,	Surgery.
12 Nov., 1903,	Gilbert Thomson, M.A., C.E., Glasgow and West of Scotland Technical College,	Sanitary Engineering.
„	Daniel Burns, Glasgow and West of Scotland Technical College,	Mining.
11 Feb., 1904,	John H. A. M'Intyre, M.I.M.E., Glasgow and West of Scotland Technical College,	Mensuration and Drawing.

And the ordinary Physicians and Surgeons of any General Hospital in the United Kingdom which accommodates not fewer than eighty patients, and possesses a distinct staff of Physicians and Surgeons. (See Ordinance No. 14, Section VII. (5).)

LIST OF INSTITUTIONS OR SCHOOLS.

List of Schools or Institutions recognized by the University Court of the University of Glasgow, for the purpose of Graduation in Medicine, Law, Science, and Theology, in terms of Ordinances of the Universities Commission (1889).

- 14 Nov., 1895, LONDON SCHOOL OF MEDICINE FOR WOMEN, in respect of the following courses: *Chemistry (Systematic and Practical), Anatomy (Systematic and Practical), Physiology (Systematic and Practical), Practical Pharmacy, Practical Pathology, Medical Jurisprudence and Public Health, Clinical Surgery, Clinical Medicine, Practical Midwifery, Mental Diseases, Out-Practice or Dispensary and Vaccination.*
- 23 Mar., 1896, OWEN'S COLLEGE, MANCHESTER.
- „ UNIVERSITY OF NEW ZEALAND. If a candidate for the First Professional Examination in this University has obtained a Degree in Science or in Arts in the University of New Zealand, granted after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, such candidate is exempted from the examination in such subject or subjects. (Ordinance No. 54, Section IV.)
- 23 July, 1896, UNIVERSITIES OF OXFORD, CAMBRIDGE, AND DUBLIN, AND THE FOUR INNS OF COURT, LONDON. The above are recognized for the purposes of Graduation in Law under Ordinance No. 39 [General No. 11.—Regulations for the Degree of Bachelor of Laws (LL.B.)] and subject to Section II. thereof.
- 11 Mar., 1897, GLASGOW EYE INFIRMARY.
- 10 Nov., 1898, UNIVERSITY OF LOUVAIN. This University has been approved by the University Court as a University in which Courses for the four subjects represented in the First Science Examination may be taken and reckoned *pro tanto* under Ordinance No. 23, Section IV. (2).
- 13 April, 1899, HARVARD UNIVERSITY, BOSTON, U.S.A. Approved under Ordinance No. 23, Section IV.
- 12 June, 1902, WESTMINSTER COLLEGE, CAMBRIDGE. Recognized under Ordinance No. 63, Section I.

APPENDIX III.

UNIVERSITY SOCIETIES.

GLASGOW UNIVERSITY UNION.

At a Meeting of Students and Graduates, held on the 14th day of February, 1885, it was unanimously resolved to establish a Glasgow University Union. A sum sufficient to erect a building for this purpose having been offered to the Senate by JOHN M'INTYRE, Esq., M.D.,

Odiham, Hampshire, and the Senate having accepted this gift, Articles of Constitution were drawn up by a Committee of Students and Graduates, and received the approval of the Senate, the Donor, and of the Students' Representative Council. A further sum of £12,000 was raised by the Union Bazaar of 1889, and devoted to furnishing and endowing the building. In 1893, to meet the increasing membership, the building was largely extended at a cost of £2800. The Union is governed by a Committee of Management which is elected annually at the General Meeting of the Members.

Objects.—The objects of the Union are to provide Students with the comforts and conveniences of a Social Club, to hold debates, and to form a centre to which the various University Societies may be affiliated. The Buildings comprise a Debating Hall, a Dining Hall, Reading and News Rooms, Billiard and Smoking Rooms, Committee Rooms, Lavatories, etc.

Membership.—The Members of the Union are Ordinary Members or Life Members.

Ordinary membership of the Union is open to all matriculated Students and all former Students of the University, and all Medical Students of Glasgow whose names are enrolled in the Extra-mural Album of the University, on payment of an Annual Subscription of Seven Shillings and Sixpence. Students may join for the summer Session only, on payment of Four Shillings.

All matriculated Students and former Students of the University may, on payment of the sum of Three Pounds Three Shillings, become Life Members of the Union.

President—D. J. M'Leish, M.A., B.Sc.

Vice-President—James J. MacLehose, M.A.

Hon. Secretary—J. I. Greig, M.A., The Union.

Hon. Treasurer—Allan F. Baird.

Assistant Secretary and Treasurer—J. M. Miller.

Librarian—Donald Carswell.

Convener of Games Committee—D. H. Wilson.

Committee of Management—The Office-bearers ; A. J. Fleming, LL.B. ; D. A. Dick, Ivy M'Kenzie, M.A., B.Sc., M.B., Ch.B. ; John Muir, B.Sc., M.B., Ch.B. (former students) ; C. M. Drew, M.A. ; R. M. Wilson, E. H. Jones, G. J. Spreull, LL.B., Walter T. P. Spens, M.A., B.L., and John Bain, M.A. (students).

Former Presidents of the Union.

1890.	John H. Harley, M.A.	1897-98.	John C. Monteith, M.A.
1890-91.	Robert G. Bell, M.D.	1898-99.	William F. Smillie.
1891-92.	John Paterson, M.A., M.B.	1899-1900.	George F. Buchan, M.B., Ch.B.
1892-93.	F. A. Macquisten, B.L.	1900-01.	Ivy M'Kenzie, M.A., B.Sc., M.B.
1893-94.	Joshua Ferguson, M.A., M.B.	1901-02.	Andrew F. Bell.
1894-95.	Joshua Ferguson, M.A., M.B.	1902-03.	G. D. Valentine, LL.B.
1895-96.	J. A. Stokes Little, M.A.	1903-04.	C. M. Drew, M.A.
1896-97.	W. C. Henderson, M.A., B.Sc. (resigned Oct., 1896).		
1896-97.	A. M. Scott, M.A.		

THEOLOGICAL SOCIETY.

The object of the Society is to discuss, by means of essays and debates, theological and ecclesiastical questions. The membership of the Society is open to all Students attending the Divinity Hall of the University: but all matriculated Students in faculties other than the Faculty of Divinity are eligible for extraordinary membership.

Office-Bearers for 1904-5.

President—John M. Hamilton, M.A.

Vice-President—John Robertson, M.A.

Secretary—J. A. G. Thomson, M.A., 12 Doune Terrace, Glasgow.

Treasurer—Angus J. M'Vicar, M.A.

Committee.

John R. Spence, M.A.

Gordon Quig, M.A.

W. R. Wiseman, M.A.

Peter J. M'Iver.

(With two students of the first year in Divinity to be elected in November.)

GLASGOW UNIVERSITY MEDICO-CHIRURGICAL SOCIETY.

(Founded 1802).

This Society has as its principal object the prosecution of medical study by essays, debates, lantern and microscopical demonstrations, and during the summer by visits to Institutions and other places of interest to medical students.

All medical Students and medical Graduates of less than one year's standing are eligible for Ordinary Membership, on payment of the annual subscription of One Shilling and Sixpence. All who at the close of their last winter's session shall have been members for two years, may become Life Members on payment of Ten Shillings and Sixpence.

Meetings of the Society are held in the Union on Friday evenings during the winter session.

Office-Bearers for 1904-5.

Honorary President—Professor Cleland, M.D., LL.D., D.Sc., F.R.S.

President—W. B. M. Martin.

Vice-President—J. S. Dunn, M.A.

Secretaries.

Corresponding—P. Maguire, The Union.

Minute—H. F. Watson.

Treasurer—D. G. Hunter, M.A.

Demonstrator—W. B. Jack.

Librarian—J. Steedman.

Committee.

D. Blackley.
D. G. Hunter.
P. Maguire.
W. A. Campbell.
H. Morton.
J. I. Greig, M.A.

A. B. Aitken.
T. L. Craig.
J. C. Marshall.
R. M. F. Picken.
A. T. A. Gourlay.

(With two Students of the first year in Medicine to be elected in November.)

Books are given out at the ordinary meetings, or on written application to the Librarian.

DIALECTIC SOCIETY.

The Society meets weekly in the Union Debating Hall during the Session for the discussion of Literary, Philosophical, and Political subjects.

All matriculated men Students are eligible for Ordinary Membership, which is obtained by payment of the Annual Subscription of One Shilling and Sixpence. (Members of the Union One Shilling.)

Honorary President.

Dudley J. Medley, M.A., Professor of History.

President—W. Crawford Grieve, M.A.

Vice-Presidents.

Senior—James Menzies.

Junior—J. S. Rogerson.

Secretaries.

Senior—John C. Watson, The Union.

Junior—T. R. M'Rorie.

Treasurer—R. M'Kenzie.

Macer—J. Anderson.

General Board.

Donald C. B. Gordon.
Robert H. Napier.
John Bain, M.A.
F. W. Saunders, M.A.

A. M. Grant.
Jacob Levine.
W. H. Saunders.
A. Turnbull.

GLASGOW UNIVERSITY ORIENTAL SOCIETY.

(Instituted 1880.)

The object of the Society is the study of the languages and literatures of the East.

All Students of Oriental languages are eligible for election to the membership.

The Society meets twice a year—in the months of April and October.

UNIVERSITY SOCIETIES.

*Office-Bearers.**President*—Rev. Professor James Robertson, D.D.*Vice-President*—R. B. Pattie, B.D.*Corresponding Secretary*—Rev. James Young, B.D.*Recording Secretary*—Rev. George Anderson, B.D.*Treasurer*—Rev. Robert Gardner, B.D.

GLASGOW UNIVERSITY ALEXANDRIAN SOCIETY.

This Society was formed in January, 1887. It has for its chief object the discussion of questions connected with the literatures of Ancient Greece and Rome. The membership is open to Members of the University. Any distinguished Scholar or any Member of the University of five years' standing, or any person officially connected with the University, is eligible for Honorary Membership.

*Office-Bearers.**Honorary Presidents.*

Professor G. G. Ramsay, LL.D. | Professor J. S. Phillimore, M.A.

Professor W. A. Raleigh, M.A.

President—W. Rennie, M.A.*Vice-Presidents* { J. E. Scott.
J. Ballantyne.*Secretary*—J. S. MacGillivray, Craigden, Greenock.*Treasurer*—F. J. Smith.*Committee.*

G. Anderson.

J. R. Brown.

E. H. Jones.

W. M'Culloch.

J. L. Morison, M.A.

A. Patrick.

GLASGOW UNIVERSITY PHILOSOPHICAL SOCIETY.

(Instituted 1887.)

This Society was instituted for the promotion of Philosophical Discussion and Investigation. It meets on alternate Wednesday Evenings at Eight o'clock during the Winter Session, in the Union. Ordinary Membership is open to all students who have attended or are attending Philosophical Classes in any University. The annual subscription is one shilling for those who join through the Union, and one shilling and sixpence for those who do not.

*Office-Bearers for Session 1904-5.**Honorary President*—Professor Émile Boutroux.*Honorary Vice-Presidents.*

The Principal,

Professor Jones, LL.D.,

Professor Raleigh, M.A.,

Professor Latta, D. Phil.,

} *Ex Officiis.**President*—Norman Smith, D. Phil.*Vice-President*—A. P. Crichton.

Secretary—William Paterson, The Union.

Treasurer—G. R. Robertson.

Members of Committee.

Miss M'Neil, Miss Farquharson, Messrs. Bowman, Jones, Trafford.

GLASGOW UNIVERSITY HISTORICAL SOCIETY.

This Society has for its aim the stimulation of interest in the study of History among the students of Glasgow University. Its membership, however, is not confined to matriculated students but extends to all members of the University and to others not connected with College, who may make their desire to join known through members of the Committee.

The annual subscription is one shilling.

Office-Bearers for Session 1903-4.

Presidents { Professor Medley.
The Rev. Professor Cooper.
Dr. W. S. M'Kechnie.

Secretary and Treasurer—J. L. Morison, M.A., The University.

Committee.

From the Staff—George Macdonald, Esq., M.A.; From Q. M. College—Misses Milligan and Whitson; From the University Students—Messrs. Ballantyne, J. H. Cockburn, J. E. Scott, J. R. Spence, M.A., and D. A. Wilson.

GLASGOW UNIVERSITY ENGINEERING SOCIETY.

(Instituted 1891.)

The objects of this Society are the promotion of the study of Engineering and the Diffusion of Engineering information among the members, by the reading of papers, by discussions, by visits to Engineering works in progress, and by such other means as the Society shall approve.

The membership is open to all past and present Students of the University.

Office-Bearers for Session 1904-5.

Honorary President—William A. Chamen, M.I.E.E.

Honorary { Professor Archibald Barr, D.Sc., M.Inst.C.E.

Vice-Presidents— { Professor J. H. Biles, LL.D., M.I.N.A.

President—J. G. Johnstone, B.Sc.

Vice-Presidents.

Civil Engineering—

H. Bamford, M.Sc., A.M.I.C.E.

Electrical Engineering.

J. B. Henderson, D.Sc.

Secretaries— { Frank Aust, James Watt Laboratory, University.
J. L. Ewan, Do. Do.

Treasurer—Charles M'Neil, B.Sc., James Watt Laboratory, University.

Minute Secretary—Alexander Chisholm, M.A.

Committee.

Engineering.

Hans A. Reincke.

Hubert N. Beilby, B.Sc.

N. J. M'Lean, B.Sc.

Naval Architecture.

J. A. Henderson.

C. S. Douglas, B.Sc.

GLASGOW UNIVERSITY PHYSICAL SOCIETY.

This Society was founded in 1884 "for the discussion of scientific subjects in general, and the diffusion of scientific information among its members, by special communications, and any other means which the Society may from time to time approve."

Meetings are held during the Winter Session on alternate Wednesdays at 3.30 P.M. The syllabus for the year is issued in autumn, and may be had from the Secretary after the commencement of the Winter Session.

All past and present students of the University who are interested in Physical Science are eligible for membership. It has been decided that Tea shall be provided at every meeting in the ensuing year. The subscription for the ensuing year has been fixed at Two Shillings and Sixpence.

The Office-Bearers are :—

Honorary President—Lord Kelvin, G.C.V.O., F.R.S.

President—Professor Gray, LL.D., F.R.S.

Vice-President—G. W. Walker, M.A., A.R.C.Sc.

First Secretary—William Miller, M.A.

Second Secretary—John M'Whan.

Treasurer—Robert Hamilton, M.A.

Letters should be addressed to the Secretary of the Society at the Physical Laboratory.

GLASGOW UNIVERSITY PHOTOGRAPHIC CLUB.

The Club endeavours to further a knowledge of Photography, as an art as well as a science, among all students and former students of this University.

Papers will be read, and discussions and demonstrations take place monthly during the Winter Session. Excursions are held during the Summer Session.

Office-Bearers, 1904-5.

Honorary President—Professor M'Kendrick, M.D., LL.D., F.R.S.

Honorary Vice-President—W. K. Hutton, M.A., M.B., C.M.

President—J. H. Teacher, M.A., M.D.

Vice-Presidents— $\left\{ \begin{array}{l} \text{J. W. Peck, M.A.} \\ \text{A. Slater Dunlop, M.A.} \end{array} \right.$

Honorary Secretary—Joseph Glaister, The Union.

Honorary Treasurer—D. Ross, jun.

Committee.

W. H. Duncan.
D. A. Dick.

J. D. Kidd.

R. V. Howell.
A. P. Love.

GLASGOW UNIVERSITY MISSIONARY SOCIETY.

(Instituted 1821.)

*Office-Bearers for 1904-5.**Honorary President*—Professor Reid, D.D.*President*—John R. Spence, M.A.*Vice-President*—F. W. Saunders, M.A.*Superintendents of Home Missions*—{ Robert Alexander, M.A.
M. Shennon.*Senior Secretary*—Gordon Quig, M.A., Corkerhill, By Govan.*Junior Secretary*—*Librarian*—James Bain, M.A.*Treasurers*—{ John S. Robertson, M.A.
J. A. G. Thomson, M.A.*Summer Committee.*The Office-bearers and Messrs. J. A. Swan, Hector Cameron, and
W. W. Clark, M.A.*Members of Committee.**From Theology*—

J. M. Hamilton, M.A.

Robert Muir.

A. J. M'Vicar, M.A.

Gavin Lawson, M.A.

A. M'Nair.

From Arts—

A. A. Bowman.

Alexander Sloan.

R. H. Napier.

From Law—

A. Stephen.

From Medicine—Robert M'Farlane and W. K. White.

Three Representatives from First Year Theology to be appointed in November.

GLASGOW UNIVERSITY CHRISTIAN UNION.

The object of this Society is the promotion of religious life and fellowship at the University.

The headquarters of the Union are at 65 Bank Street, where there are carried on weekly Bible-reading circles and daily Prayer Meetings. Other features of the work are: Monthly addresses by well-known preachers and deputations to Evangelistic meetings.

*Office-Bearers.**Hon. President*—Professor M'Kendrick, M.D., LL.D., F.R.S.*Hon. Vice-President*—John L. Morison, M.A.*President*—John M. Hunter.

Vice-President—James E. Scott.

General Secretary—Tennant Sloan, 2 Crown Circus.

Assistant Secretary—Herbert Bertram.

Missionary Secretary—Frank W. Scougal.

Bible-circle Secretaries—*Arts*: John A. Steele. *Medicine*: Wm. B. Jack.

House Secretary—William Y. Turner, M.A.

Treasurer—Alexander C. Grant.

Committee.

E. Eaton.

R. Napier.

S. Galbraith.

GLASGOW UNIVERSITY STUDENTS' SETTLEMENT SOCIETY.

This Society was founded in 1889 with the object of carrying on social, educative, and Christian work.

The Settlement, consisting of residence, club-rooms, and halls, is situated at 10 Possil Road, Garscube Cross. The work takes various forms, including social clubs, Sunday meetings, a "Poor Man's Lawyer," a Medical Dispensary, and Savings Bank. In the residence there is accommodation for fifteen students, and those who desire to enter into residence should communicate at the beginning of the session with the Warden or Secretary.

Office-Bearers.

President and Warden—Wm. Boyd, M.A., B.Sc.

Secretary—Thomas Barbour, B.Sc., 10 Possil Road, Glasgow.

Sub-Warden—J. W. Pratt.

General Committee.

J. Cunnison.

J. Hinkens.

R. H. Napier.

Finance Committee.

Prof. Henry Jones, LL.D.

R. Harvey Pirie, LL.B.

Rev. D. Kirkwood, B.D.

David Yellowlees, M.D., LL.D.

Thomas Barbour, B.Sc.

GLASGOW UNIVERSITY TEMPERANCE SOCIETY.

The object of this Society is to unite those students in the University who are interested in the cause of Temperance and are anxious to work for its advance. This work it seeks to accomplish among the students by means of At Homes, Lectures, etc., while, outside the University, it carries on successful Temperance Mission Work.

*Office-Bearers for 1904-5.**Honorary President*—Professor Samson Gemmell, M.D.*Honorary Vice-Presidents.*

Geo. A. Gibson, M.A.

James Carslaw, M.B.

A. Cameron Corbett, M.P.

A. Bonar Law, M.P.

R. D. Bell, M.A.

President—W. M. T. Wilson.*Vice-President*—Miss Mackie.*Secretary*—A. C. Grant, 61 Kersland Street, Hillhead.*Treasurer*—Thomas Barbour, B.Sc., Students' Settlement, 10 Possil Rd.*Committee**Arts—*

J. W. Pratt.

R. H. Napier.

A. Brown.

Science—

G. Sexton.

Medicine—

R. M. Wilson.

Arnold Gray.

J. Campbell.

Divinity—

H. Dunn, M.A.

From Queen Margaret College—Miss Thomlinson, Miss W. D. Morrison,
Miss Armour, and Miss M'Leish.

GLASGOW UNIVERSITY '88 MEDICAL CLUB.

The purpose of this Club is to encourage social intercourse among those who studied Medicine at Glasgow University in the years 1884-1888. A Triennial Dinner is held, and communications are addressed at that time to the Members of the Club in all parts of the world.

*Office-Bearers for 1902-1905.**Chairman*—John Adams, M.B., C.M.*Secretary*—T. K. Monro, M.A., M.D., 10 Clairmont Gardens, Glasgow.*Committee.*

T. C. Barras, M.B., C.M.

J. P. Boyd, M.B., C.M.

R. M. Buchanan, M.B., C.M.

Andrew Davidson, M.A., M.D.

J. M'C. Johnston, M.A., M.D.

A. Brown Kelly, D.Sc., M.D.

H. L. G. Leask, M.D., C.M.

R. B. Lothian, M.B., C.M.

J. Wyllie Nicol, M.B., C.M.

L. R. Oswald, M.B., C.M.

C. E. Robertson, M.D., C.M.

John Rowan, M.B., C.M.

Wm. Roxburgh, M.D., C.M.

Robert Steel, M.A., M.B.

John Wright, M.B., C.M.

GLASGOW UNIVERSITY '93 CLUB.

The object of the Club is to promote intercourse among the Members by means of at least one annual re-union which shall be held as far as

possible on the Friday before Christmas. The Membership is limited to students of the University of the session 1892-93.

Office-bearers for 1904.

President—J. Roy Tannahill.

Vice-Presidents—{ W. A. Lindsay, M.A., B.Sc.
John Wallace, M.A.

Secretary and Treasurer—Robert W. McClure, B.L.,
172 St. Vincent Street, Glasgow.

Committee.

A. Wylie Blue.

D. Scott.

A. H. Charteris, LL.B.

William Gordon.

A. J. Fleming, LL.B.

Thomas M. Fletcher, M.B., C.M.

M. McCallum Fairgrieve, B.A.

GLASGOW UNIVERSITY TWENTIETH CENTURY (ARTS) CLUB.

Membership of this Club is limited to (a) Students of the Moral Philosophy and English Literature Classes during the session 1900-1901, (b) Graduates in Arts of the year 1901, (c) elected Members.

The object of the Club is to encourage and perpetuate by social intercourse friendships formed during the College career, and to keep Members in touch with their Alma Mater. The Club consists of 115 Members, and there is at least one annual meeting.

The Office-Bearers for Session 1904-1905 are:

Honorary Presidents—Professors Jones and Raleigh.

President—David G. Hunter, M.A.

Vice-Presidents—{ Leyton P. Richards, M.A.
Archd. Crawford, M.A.

Secretary and Treasurer—James H. Cockburn,
7 Buchanan Terrace, Paisley.

Committee.

James Bain, M.A.

J. Isdale Greig, M.A.

R. D. Watt, M.A.

GLASGOW UNIVERSITY—NEW CENTURY LAW CLUB.

The object of the Club is to promote friendly intercourse among the Students of Law, by holding at least two social functions in the year.

All Students attending any of the Law Classes in the Glasgow University during the Sessions of 1900 to 1901, and 1901 to 1902, are eligible for Membership on payment of the annual subscription of One Shilling.

*Office-Bearers.**Honorary Presidents.*

Charles Scott Dickson, K.C., M.P., Lord-Advocate for Scotland.
 John Boyd, Advocate, Sheriff-Substitute for Lanarkshire.
 Professor Alexander Moody Stuart, LL.D., Advocate } *ex officio*.
 Professor James Moir, LL.D., }

President—George D. Valentine, LL.B., Advocate.

Vice-Presidents { James Auld.
 { Weir Grieve, M.A.

Secretary and Treasurer—David Ross, Jr.
 2 Carlton Terrace, Kelvinside, North, Glasgow.

Committee.

Wm. Boyd Berry, LL.B.	Wyllie R. M'Intyre.
Wm. E. Cameron, M.A.	Ed. Rosslyn Mitchell, LL.B.
J. A. Gulliland.	George J. Spreull, LL.B.
A. G. Kemp.	David Wilson.

GLASGOW UNIVERSITY OSSIANIC SOCIETY.

(Instituted 1828.)

The object of the Society is the discussion of subjects bearing on the language, literature, and customs of the Highlands. It meets in the Union on Friday evenings at seven during the winter session. All meetings are conducted in English with the exception of four, two of which are purely Gaelic, and two composite. Ordinary membership is open to all students, both men and women, interested in the Highlands.

Office-Bearers for Session 1904-5.

Honorary President—Professor Kuno Meyer, Ph.D.

President—Angus J. MacVicar, M.A.

Gaelic Vice-President—Dugald MacCallum.

English Vice-President—Donald M'Phie.

Secretary—N. A. M. Johnson.

Assistant-Secretary—John Cameron.

Treasurer—Alexander Silver.

Bard—Hector Cameron.

Representative to Union—George Ferguson, M.A.

Members of Committee.

F. Beaton.	Neil Macphail.
A. Campbell.	Miss Macmillan (Convener).

With two members to be elected from first year's students, one from Arts and one from Medicine, in November.

THE CHURCH OF SCOTLAND UNDERGRADUATE SOCIETY.

The Society meets every Monday at 7.30 p.m. in the Union for the discussion of literary, social, and religious topics, and for the promotion of social intercourse among its members.

All undergraduate students connected with the Church of Scotland are eligible for membership. An undergraduate shall mean a student in any Faculty who has not graduated in that Faculty.

The annual subscription is one shilling for Union members and one shilling and sixpence for non-Union members.

Office-Bearers for 1904-05.

Honorary President—Professor Reid, D.D.

President—James Bain, M.A.

Vice-President—H. D. Sempill.

Secretary—Alexander Silver, 1 Millar Place, Stirling.

Treasurer—T. Baxter.

Committee.

Messrs. J. Young, B.A., H. F. Watson, W. K. White, A. W. M'Nair,
J. Anderson, D. Venters, R. Jenkins.

GLASGOW UNIVERSITY UNITED FREE CHURCH STUDENTS' CELTIC SOCIETY.

This Society was instituted in 1864. All United Free Church students connected with or interested in the Highlands are eligible for ordinary membership. It meets in one of the United Free Church College Class-rooms every Friday evening during the Session for the discussion of various subjects, chiefly literary and political. At two of the meetings the business is conducted in Gaelic.

Office-Bearers for 1904-5.

Honorary President—Professor Murdoch Cameron, M.D.

President—Archibald Young, M.A.

Vice-President—Robert C. Robertson.

Secretary—Duncan Blair, M.A., 28 Arlington Street.

Treasurer—Alexander M'Iver, M.A.

Directors.

Divinity—

Archibald Shaw, M.A.

Arts—

Medicine—

Geo. Beaton.

Murdo MacRae.

GLASGOW UNIVERSITY UNITED FREE CHURCH STUDENTS' SOCIETY.

(Instituted 1845.)

Honorary President—Rev. James Moffatt, D.D.*President*—Gilbert W. Elliott.*Vice-Presidents*—William M'Naught, M.A., and James Ritchie.*Secretary*—Hugh Smith, 4 Highburgh Road, Partick.*Treasurer*—John J. Dempster.*Editor of Magazine*—Robert W. Murchie.*Committee.*

Robert Inglis, David T. Leggat, William J. Baxter, with one student in the Faculty of Science and one of the first year in Arts to be elected in October.

This Society meets every Saturday at 10 a.m. in the Union.

The objects of the Society are the promotion of social intercourse and the furtherance of moral and intellectual culture among its members.

All Students attending the University in any Faculty, who are connected with the United Free Church, are eligible for membership, which is obtained by the payment of the annual subscription of One Shilling and Sixpence. Students not connected with the above Church may become Associates.

GLASGOW UNIVERSITY ATHLETIC CLUB.

*Office-Bearers for 1904-5.**Honorary President*—Professor Medley, M.A.*Hon. Vice-Presidents*—Professor Bower, Messrs. J. B. Brown, D. T. Gwynne-Vaughan, and Dr. John F. Ferguson.*President*—C. C. Fitzgerald.*Hon. Treasurer*—Dr. W. H. Lang.*Hon. Secretary*—John Bain, M.A., The Union.*Committees of Sections—*

Rugby Football—Dr. J. W. Arthur (Captain), T. Hodge (Vice-Captain), C. C. Fitzgerald, L. D. Shaw, G. Kirkwood, S. J. Gardner (Secy.).

Fives—B. I. F. Adams (Captain), J. R. C. Greenlees, D. T. Gwynne-Vaughan, M. R. Taylor, W. N. Monteith, B.D. (Secy.).

Golf—Professor Stockman (Convener), J. H. Dunlop, H. S. Ranken, Dr. J. B. Henderson, A. M'Alister, and M. A. Parker, B.Sc., and W. Rankin (Joint-Secretaries).

Sports—C. C. Fitzgerald, B. H. Robertson, M.A., B.Sc., E. J. Dyke, W. C. Mackie, John Bain, M.A., James M. Clark, M.A., B.Sc. (Secy.).

Cricket—J. E. Scott (Captain), J. L. Morison, M.A., T. Sloan, R. J. Driscoll, C. F. D. Hammond, J. Glaister (Secy.).

Executive Committee.

The Officials, Secretaries of Sections, L. D. Shaw,
and James R. Kerr.

The object of the Club is the promotion of all forms of Athletic exercise. The Membership is confined to present and past Students of the University.

Subscriptions: Athletic Club, Two Shillings and Sixpence, and in addition as follows: Rugby Football, Seven Shillings and Sixpence; Fives Club, Three Shillings: Golf Club, Three Shillings and Sixpence.
Inclusive Subscription, One Guinea.

ALMA MATER CLUB.

This Club, founded in the year 1903, has as its object the promoting of the social life of the students, past and present, of the University. In the course of the session it holds musical At Homes, smoking concerts, a dramatic production, and a dance. Students, past and present, and members of the teaching staff, past and present, of Glasgow University may become members of the Club. The annual subscription is Five Shillings. The following are the Office-Bearers for the year:

Honorary President—The Principal.

Honorary Vice-Presidents—Professor Raleigh and Miss Galloway.

Convener and Secretary—Nigel Carlyle Graham.

Sub-Convener—Mary Theresa Gallagher.

Treasurer—John Bain, M.A.

GLASGOW UNIVERSITY RIFLE CLUB.

Office-Bearers for 1904-1905.

President—The Very Rev. Principal Story, D.D., LL.D.

Vice-Presidents—Sir John Stirling Maxwell, Bart., and Professor Bower.

Team Captain—William Nelson (Major 1st L.R.V.),
Auldfield Place, Pollokshaws.

Vice-Captain—P. F. W. Edington, B.L. (Lieut., 1st L.R.V.).

Secretary, Treasurer, and Students' Convener—J. Cochrane,
The Union.

Committee—T. E. Robinson (Major 1st L.R.V., retired), F. W. Heys (Captain, 3rd V.B.A. and S.H.), Messrs. G. N. Kirkwood and T. G. Copestake.

Its objects shall be to promote rifle shooting among students and ex-students of Glasgow University, and to provide the means of having Glasgow University well represented, by a team consisting of five students and five ex-students, in the annual match for the Inter-University Trophy.

Edinburgh University won the Trophy last year with a total of 879 points. Glasgow, being second with 854 points, was represented by the following team at Edinburgh:

Ex-students—Messrs. Edington, W. Nelson, Purdie, Heys, and Kirkwood.

Students—Messrs. T. G. Copestake, G. H. Downie, J. R. Coats, T. Ellis, and Kirkwood.

All students and ex-students of Glasgow University shall be eligible as Patrons and Ordinary Members. All persons officially connected with the University shall be eligible as Patrons. Both classes of Members may take part in the competitions.

All persons, eligible as above, subscribing 10s. or upwards annually, shall be *ipso facto* Patrons. The subscription for Ordinary Members shall be 5s. for ex-students, and 2s. 6d. for present students, all payable by 1st March annually. These annual subscriptions may be commuted by a present payment of £3 3s., entitling the person paying to become a Life Patron.

GLASGOW UNIVERSITY CLUB, LONDON.

The objects of the Club are to maintain good fellowship among its members and so promote the interests of the University of Glasgow and of higher education in connection therewith.

Graduates, and all who are or have been students of the University of Glasgow, or officially connected with it, are eligible for membership.

Office-Bearers for 1904-1905.

President—

The Right Honourable Lord Kelvin, O.M., G.C.V.O., F.R.S., D.C.L., LL.D., Chancellor of the University.

Vice-Presidents—

Sir W. T. Gairdner, K.C.B., M.D., LL.D., F.R.S.	Dr. Geo. A. Heron, F.R.C.P.
Lord Kinnear.	The Very Rev. Principal Story, D.D., LL.D.
Sir W. H. White, K.C.B.	Professor John M. Thomson, F.R.S.
The Right Honourable Lord Balfour of Burleigh, K.T.	

Council—

W. W. Don, M.D.	Lt.-Col. Wm. Babbie, V.C.
Professor J. W. Hales, M.A.	Rev. A. J. Carlyle, M.A.
R. A. Ker, Esq.	Dr. Malcolm Mackintosh.
Professor Bradley, M.A., LL.D.	Francis Elgar, F.R.S., LL.D.
Professor Sir James Dewar, F.R.S.	J. R. M'Ilraith, M.A., LL.B.
Norman M. MacLehose, M.B., C.M.	D. S. Roxburgh, M.B.

Honorary Treasurer—Guthrie Rankin, M.D., M.R.C.P., 4 Chesham Street, Belgrave Square, S.W.

Honorary Secretaries—

James M. Dodds, M.A., Dover House, Whitehall, S.W.
C. O. Hawthorne, M.D., M.R.C.P., 63 Harley Street, Cavendish Square, W.

APPENDIX IV.

*LOCAL COMMITTEE FOR THE TRAINING OF
TEACHERS.*

Chairman—Professor Latta, M.A., D. Phil.

Director—John Clark, M.A., Lecturer on Education.

Master of Method—Hugh McCallum, M.A.

Mistress of Method and Warden of Women Students—Miss
Jane B. Stewart, M.A.

Lecturer in Music—James Gallie.

ARRANGEMENTS FOR SESSION 1904-5.

THE Local Committee recently established in the University of Glasgow for the Training of Teachers invite applications for the Session beginning October, 1904, from Candidates desirous of becoming King's Students and of thus qualifying for the Teacher's Certificate granted by the Scotch Education Department.

The Committee's Scheme provides for the Training of both Graduates and Non-Graduates. The Course of Study embraces, in addition to classes qualifying for graduation, such professional subjects as are necessary for the practical training of Teachers. The Course extends over three winter and two summer sessions. Students are expected to enter upon the Course in the first year of their University attendance, but those who have already attended University Classes for Graduation may be accepted subject to the approval of the Scotch Education Department, and in their case the period of training will be as nearly as possible co-terminous with the completion of the Degree Course. For Graduates a one year's Course of Study in extra-University subjects will, as a rule, be deemed sufficient.

Students trained under this scheme are recognised as Certificated Teachers by the Scotch Education Department, without further examination. All Students must follow a Course of Study leading to Graduation, but the obtaining of a Degree is not a necessary condition of receiving a certificate.

Candidates must be not less than eighteen years of age on 1st October preceeding their recognition as King's Students, and must have passed the whole Preliminary Examination in Arts or Science, or its equivalent. Candidates who possess the necessary qualifications should make application *as soon as possible, and in any case not later than 1st September, 1904*, and any who intend to complete their Preliminary

Examination in October next should make provisional application before 1st September.

All accepted candidates, except those who are admitted as fee-paying students, must sign a Declaration and undertaking that they intend to adopt and follow the profession of teacher, and to serve in state-aided schools (primary or secondary) during the period necessary for the obtaining of the Parchment Certificate in terms of article 51 of the Scotch Education Code. No fee is charged for instruction in the extra-University subjects in the case of those signing the above Declaration, but the Committee are prepared to accept, on payment of a fee of £5 *per annum*, a limited number of students who may not wish to sign the said Declaration.

The Committee are also prepared to consider applications for a limited number of scholarships of varying amount, from students who may require aid in the prosecution of their studies. Such students must sign, *in addition to the Declaration, an Obligation to repay all monies paid to them or on their behalf, in the event of their failure to implement the Declaration and undertaking.* As the said scholarships are granted subject to the approval of the Scotch Education Department, applicants should forward the necessary particulars to guide the Committee in their recommendations.

King's Students proceeding to the ordinary Degree in Arts, must make their University classes according to the following scheme :

- 1st Year. *Obligatory : Latin and Mathematics.
- 2nd Year. Obligatory : Logic and Education.
†Optional : One of the following—Greek, French, German, Chemistry, History.
- 3rd Year. Obligatory : English Literature and Natural Philosophy.

Students who have already begun their University Course or who intend to graduate with Honours or in Science must submit, for the approval of the Committee and of the Scotch Education Department, the Course of Study they propose to follow.

Students are strongly recommended to take the Diploma in Education, and in their third year to take as the extra subject necessary for that purpose, Moral Philosophy, or one of the optional subjects mentioned above.

Adequate arrangements have been made for the teaching of the following extra-University subjects, and the time-table has been so adjusted in relation to attendance at the University classes, as to make a minimum demand on the time of the students during the ordinary University winter session : Practice in Teaching, Instruction in Method, Music, Drawing and kindred subjects, Physical Training, Needlework, Practical Science and Nature-Study generally, History, Geography,

*The Committee will offer an alternative to Latin in the first year in the case of students who have passed their Preliminary Examination on the lower standard in that subject, as such students are not entitled to attend the graduating class.

†Students are recommended to include a modern language in their course.

Phonetics, and Religious Instruction. Arrangements will also be made for a preliminary course of reading in English authors, which in terms of the Code is required of all students before attending the English Literature class.

During the winter session, the time devoted to the study of extra-University subjects, including practical teaching, will probably be not more than nine hours per week.

In connection with the practical work of teaching, the School Boards of Glasgow and Govan have placed their schools at the disposal of the Committee, and meanwhile the following six have been selected for the criticism lessons given under the direction of the Master of Method recently appointed by the Committee: Willowbank, Napierhall, Woodside, Hillhead, Dowanhill, and Church Street. Woodside and Hillhead are Secondary schools, and therefore students will have opportunities of gaining experience of classes at every stage up to the level of the University Entrance Examination and the Honours Leaving Certificate Examination.

During the third winter session the extra-University work will consist almost entirely of school visitation and practical teaching, and the amount of time throughout the full course devoted to the practice of teaching and the study of method will be about six hours per week.

All communications relative to the scheme should be sent to the *Director, Local Committee for the Training of Teachers, The University, Glasgow*, from whom forms of application may be obtained.

APPENDIX V.

UNIVERSITY COURT ORDINANCE NO. VIII. (GLASGOW NO. 3). FOUNDATION OF PROFESSORSHIP OF GEOLOGY AND FOR OTHER PURPOSES.

UNIVERSITY OF GLASGOW.

ORDINANCE OF THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW, NO. 3 [*Foundation of Professorship of Geology, and for other Purposes*].

At Glasgow, the twelfth day of February, nineteen hundred and three years.

WHEREAS by Section 14 of the Universities (Scotland) Act, 1889, it is enacted that the Commissioners under the said Act shall have power (subsection 3) to regulate and alter the designations of Professorships, and shall have power (subsection 8) to found new Professorships, where such a course seems desirable, and when there are sufficient means for

their endowment, and to determine in what authority the patronage of such Professorships shall be vested :

And whereas by Section 6 of the said Act it is enacted that the University Court shall have power (subsection 10), after the expiration of the powers of the said Commissioners, to found new Professorships, with the approval of the Universities Committee of the Privy Council :

And whereas by Section 21 of the said Act, it is enacted that, after the expiration of the powers of the said Commissioners, the University Court of each University shall have power to make such ordinances as they think fit, with the approval of His Majesty in Council, *inter alia* altering or revoking any of the Ordinances affecting such University framed and passed under the Universities (Scotland) Act, 1858, or the Universities (Scotland) Act, 1889, and making new ordinances :

And whereas the powers conferred on the said Commissioners have expired :

And whereas the progress of knowledge has made it desirable that Zoology and Geology (hitherto in the University of Glasgow comprehended under the Chair of Natural History and taught by the Professor of Natural History) should henceforth be taught by a Professor of Zoology and a Professor of Geology respectively :

And whereas sufficient means for the endowment of a Chair or Professorship of Geology, amounting in all to Fifteen thousand pounds sterling, have been provided by the Carnegie Trustees, the Bellahouston Trustees, and others interested in the advancement and study of the said Science of Geology :

Therefore the University Court hereby statute and ordain with reference to the University of Glasgow as follows :—

I. (1) The present Professor of Natural History shall, until the date on which this Ordinance shall be approved by His Majesty in Council, retain his existing style and title, and shall deliver such number of lectures and conduct such laboratory instruction as the University Court may appoint on any subject within the scope of his Commission.

(2) From and after the date on which this Ordinance shall be approved by His Majesty in Council, the Professorship of Natural History shall be styled the Professorship of Zoology, and the Professor of Zoology shall be a Professor in the Faculties of Medicine and Science in the University of Glasgow.

(3) The Professor of Zoology shall annually deliver such lectures and conduct such laboratory instruction in Zoology and Comparative Anatomy as the University Court may appoint, and shall be entitled to the salary provided by Section VIII. of Ordinance No. 25 for the Professorship of Natural History, which, in accordance with the provisions of the immediately preceding subsection of this Ordinance, shall then be styled the Professorship of Zoology.

(4) Instead of the words "Natural History" in Ordinance No. 25, Schedule I., and in Ordinance No. 31, Section I., subsections (2) and (5) shall be read the word "Zoology."

II. (1) There shall be a Chair or Professorship of Geology in the University of Glasgow, and the Professor shall be a Professor in the Faculty of Science in the said University.

(2) Immediately after the words "The Professor of Chemistry" in Ordinance No. 31, Section I., subsection (2) shall be inserted the words "The Professor of Geology."

(3) The annual free income of the sum provided for the endowment of the Chair of Geology, together with the sum of £100 out of the General University Fund shall be annually paid into the Salaries Account as if they were an endowment, and an additional endowment within the meaning of Section VII., subsections (1) and (2) of Ordinance No. 25, and shall be annually paid thereout to the said Professor under the provisions of Section VIII., subsection (1) of the said Ordinance; and if such payment shall fail to reach the sum of £600, the Professor shall have such claim on the Fee Fund as if his normal salary had been fixed at £600, subject to the provisions of Section VIII., subsections (2) and (3) of the said Ordinance.

(4) The fees of the students attending the classes of the said Professor shall be drawn by the University Court, and shall be paid into the Fee Fund, and the provisions of Section IV. of the said Ordinance shall be deemed to apply thereto.

(5) The patronage of the said Professorship, and the right of presenting or appointing the Professor, shall be vested in and exercised by the University Court of the University of Glasgow.

(6) The University Court shall from time to time define the duties of the Professor as in the case of other Professors in the University.

III. This Ordinance shall come into force from and after the date on which it is approved by His Majesty in Council.

Approved, October, 1903.

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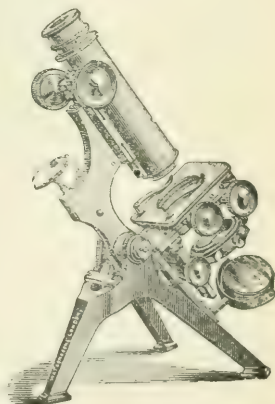
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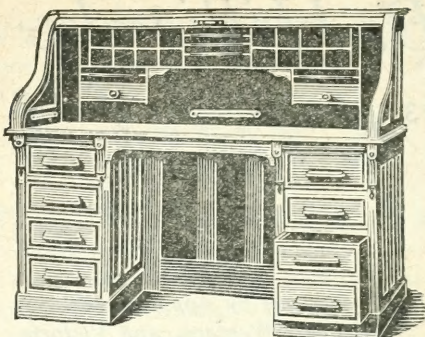
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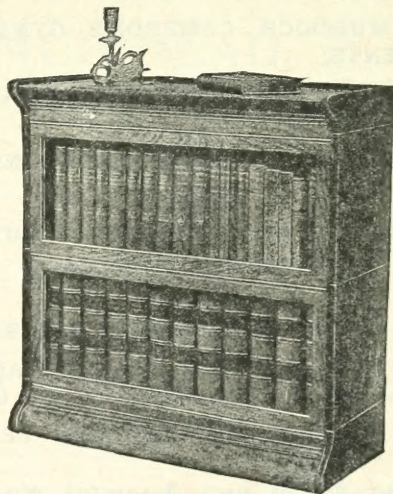
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